

SERVICE MANUAL



VGC-V Series

American Area

US Model
Canadian Model

Ver. 3-2006C

Revision History

Line up: VGC-V520G
VGC-V517G
VGC-V620G
VGC-V617G



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PERSONAL COMPUTER

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Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate. Dispose of used battery promptly. Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, mutilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the \triangle mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all

screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

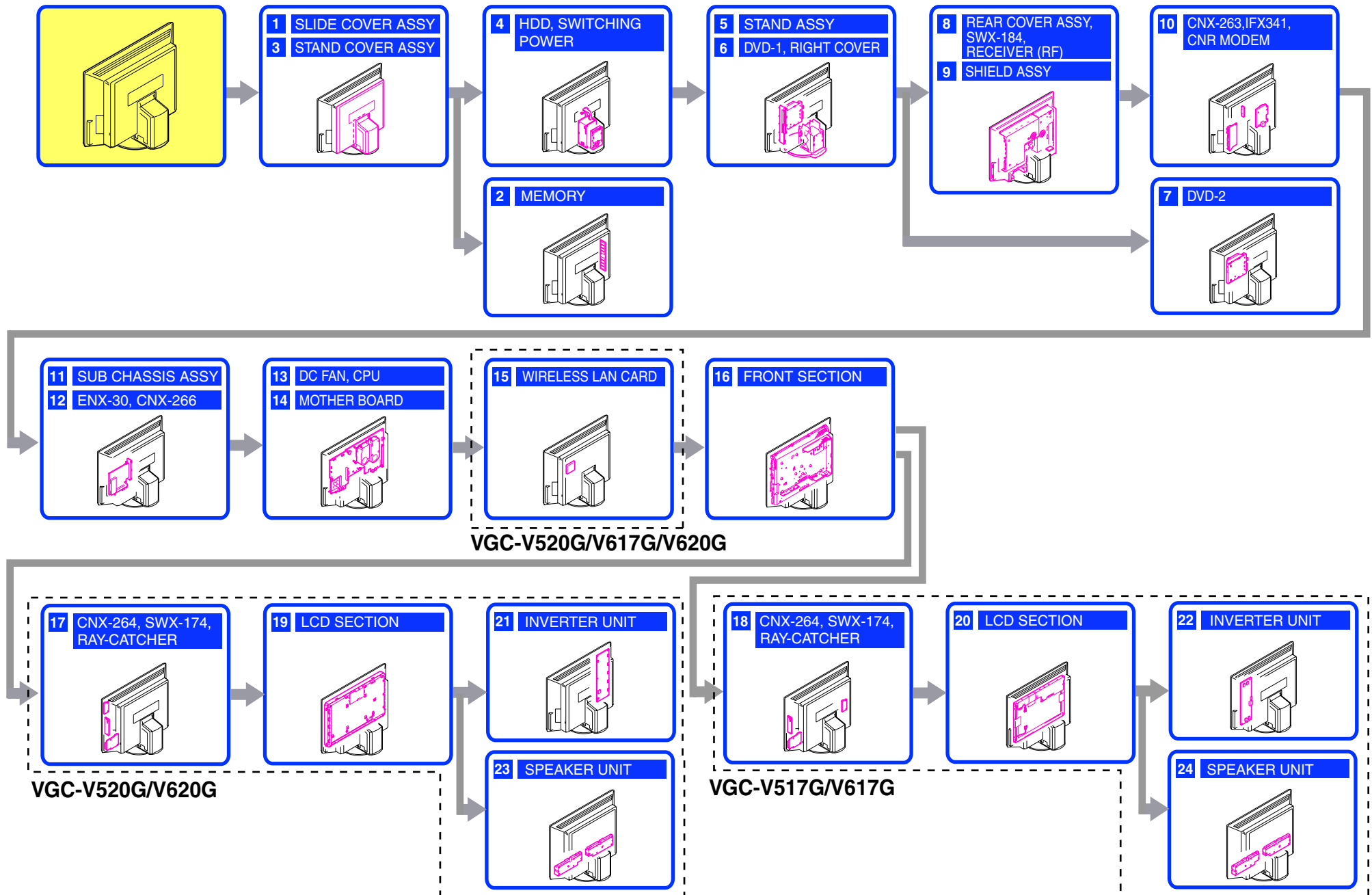
- The temperature of the soldering-iron tip should be about 270°C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

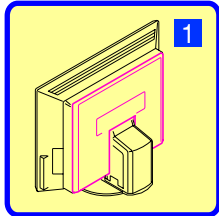
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

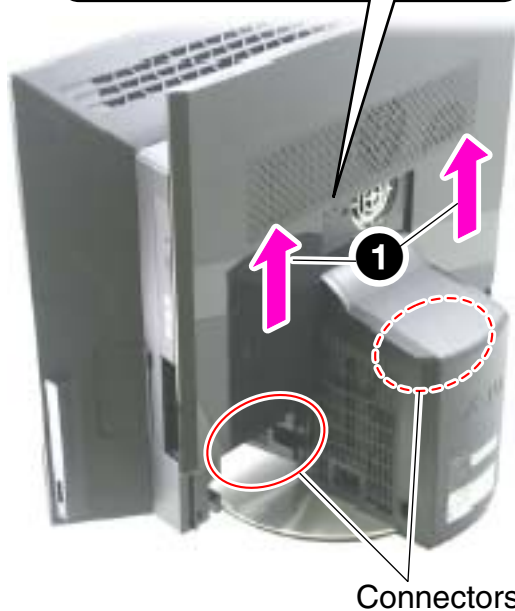
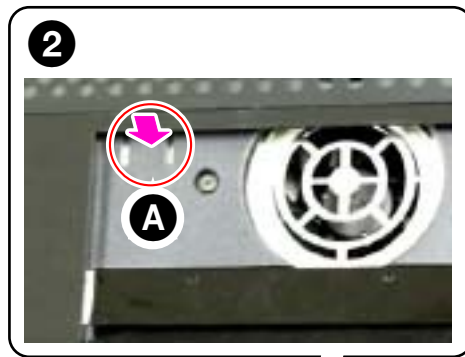
DISASSEMBLY



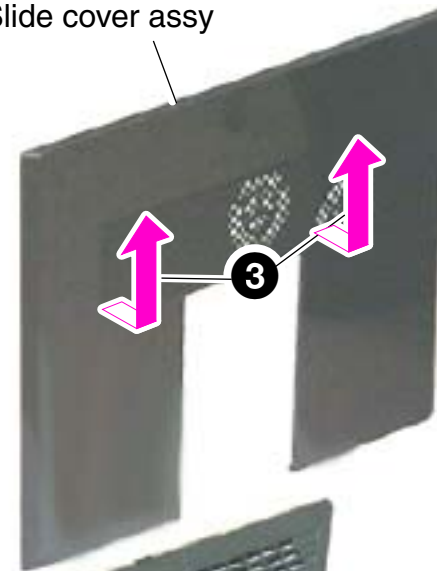
DISASSEMBLY



[To Flowchart](#)



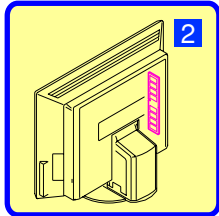
Slide cover assy



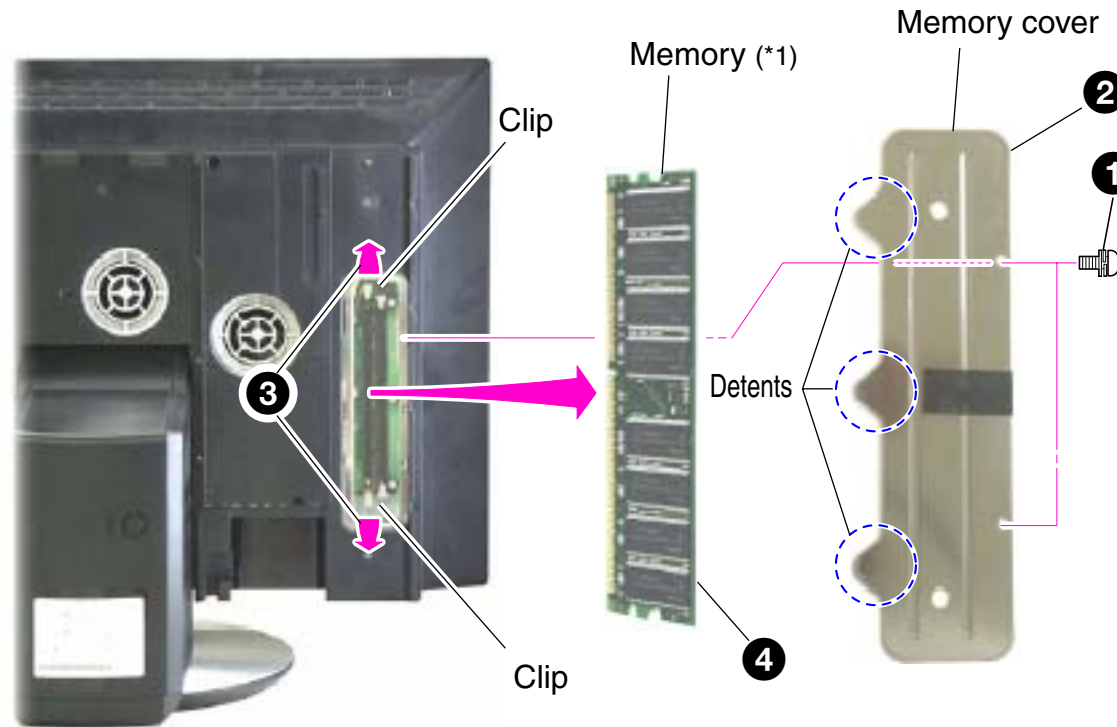
1 SLIDE COVER ASSY

- ❶ Move, by sliding, the slide cover assy upward until the connectors on the rear of the set is exposed.
- ❷ While pushing the portion (A), move, by sliding, the slide cover assy further upward until the lock is released.
- ❸ Remove the slide cover assy on the direction of the arrow.

DISASSEMBLY



[To Flowchart](#)



2 MEMORY

- 1 Remove the two screws.



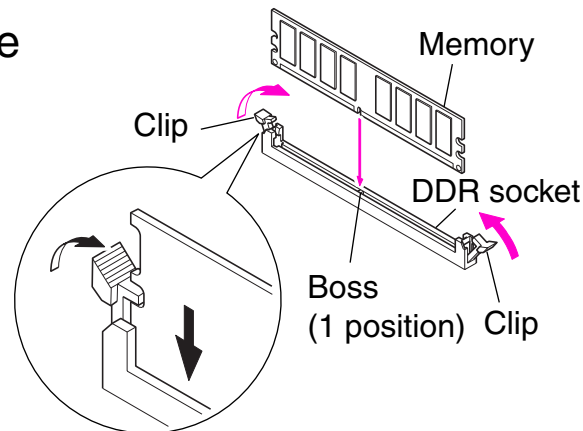
- 2 Disengage the three detents and remove the memory cover.

- 3 Open the two clips.

- 4 Pull out the memory module (*1) from the board in the vertical direction.

Notes when installing the Memory module

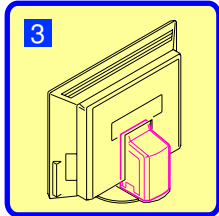
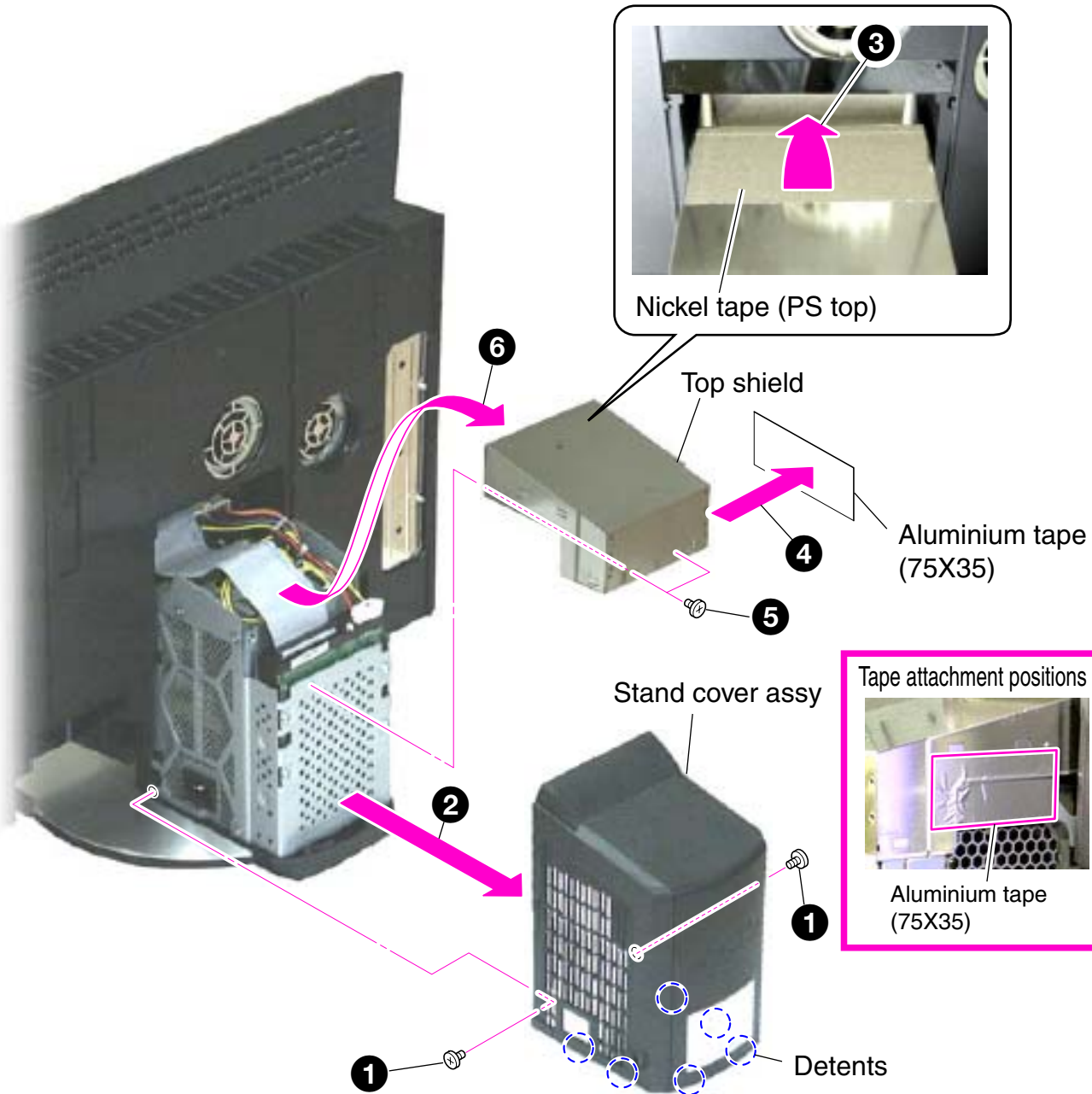
- (1) While the clips are left open, insert the Memory module so that the protrusion of socket enters into the notch of the Memory module.
- (2) When the Memory module is inserted completely, check that the clips are closed.
- (3) Be sure to insert the Memory modules starting from the having the smallest bank number.



(*1) Two memory modules are installed on model V520G and V620G.

DISASSEMBLY

3


[To Flowchart](#)


3 STAND COVER ASSY

- 1 Remove the two screws.



Ref. No 172
FLAT HEAD
4-672-839-11
Black

- 2 Disengage the six detents and remove the stand cover assy.

- 3 Turn over the nickel tape (PS top).

- 4 Peel off the aluminium tape (75X35).

- 5 Remove the two screws.

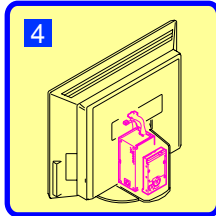


Ref. No 153
+P 3X3
7-682-144-04
Silver

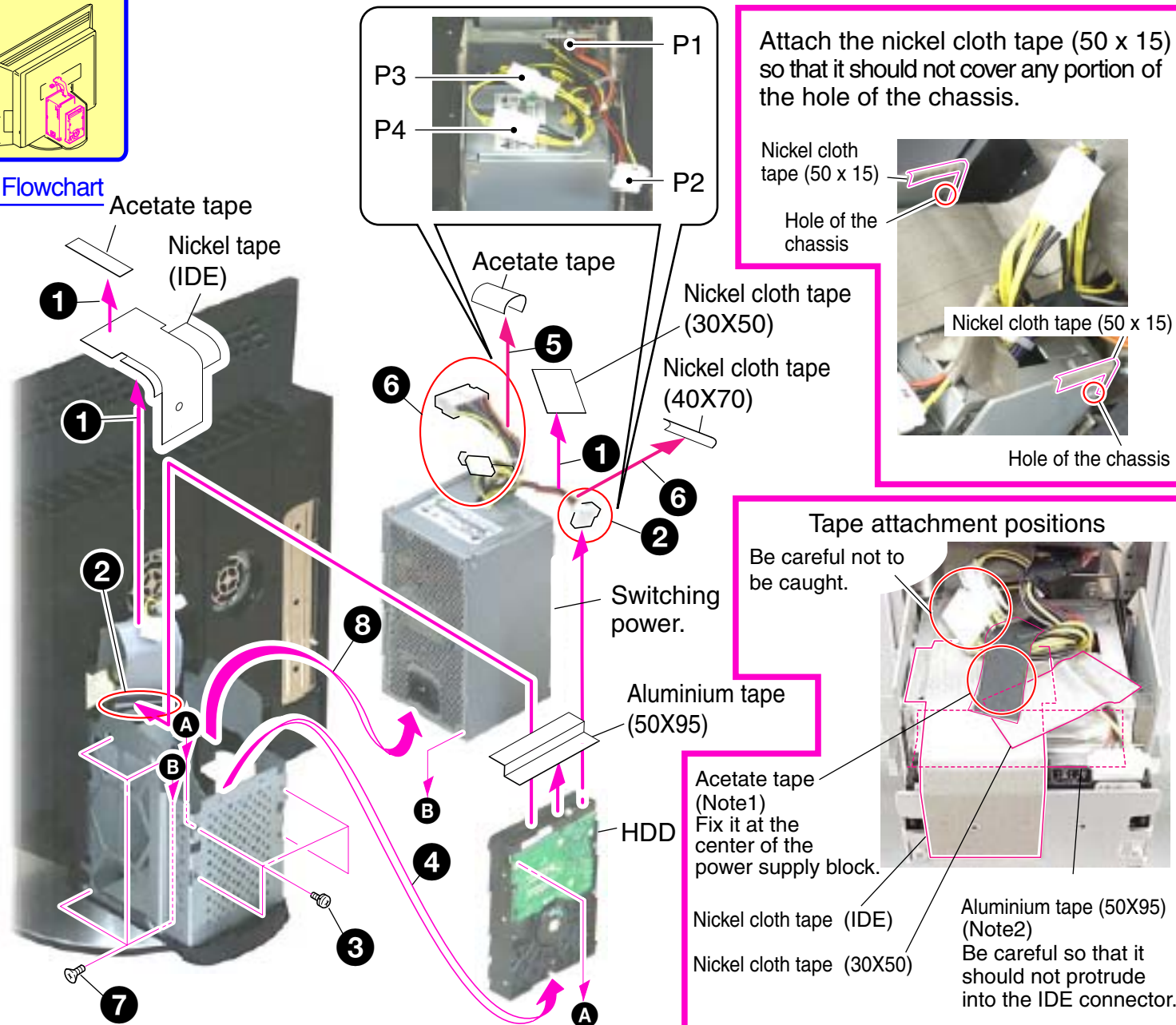
- 5 Remove the top shield.

DISASSEMBLY

4 HDD, SWITCHING POWER



To Flowchart



1 Peel off the nickel tape (IDE), nickel cloth tape (30X50) and acetate tape.

2 Disconnect the two connectors.

3 Remove the four screws.



Ref. No 166
(SW)(NO.6-32UNC)
4-645-944-22
Silver

4 Peel off the aluminium tape (50X95) and remove the HDD.

5 Peel off acetate tape.

6 Disconnect the three connectors. Peel off the nickel cloth (40X70).

7 Remove the four screws.

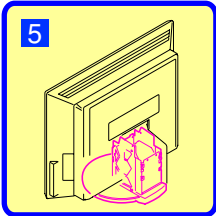
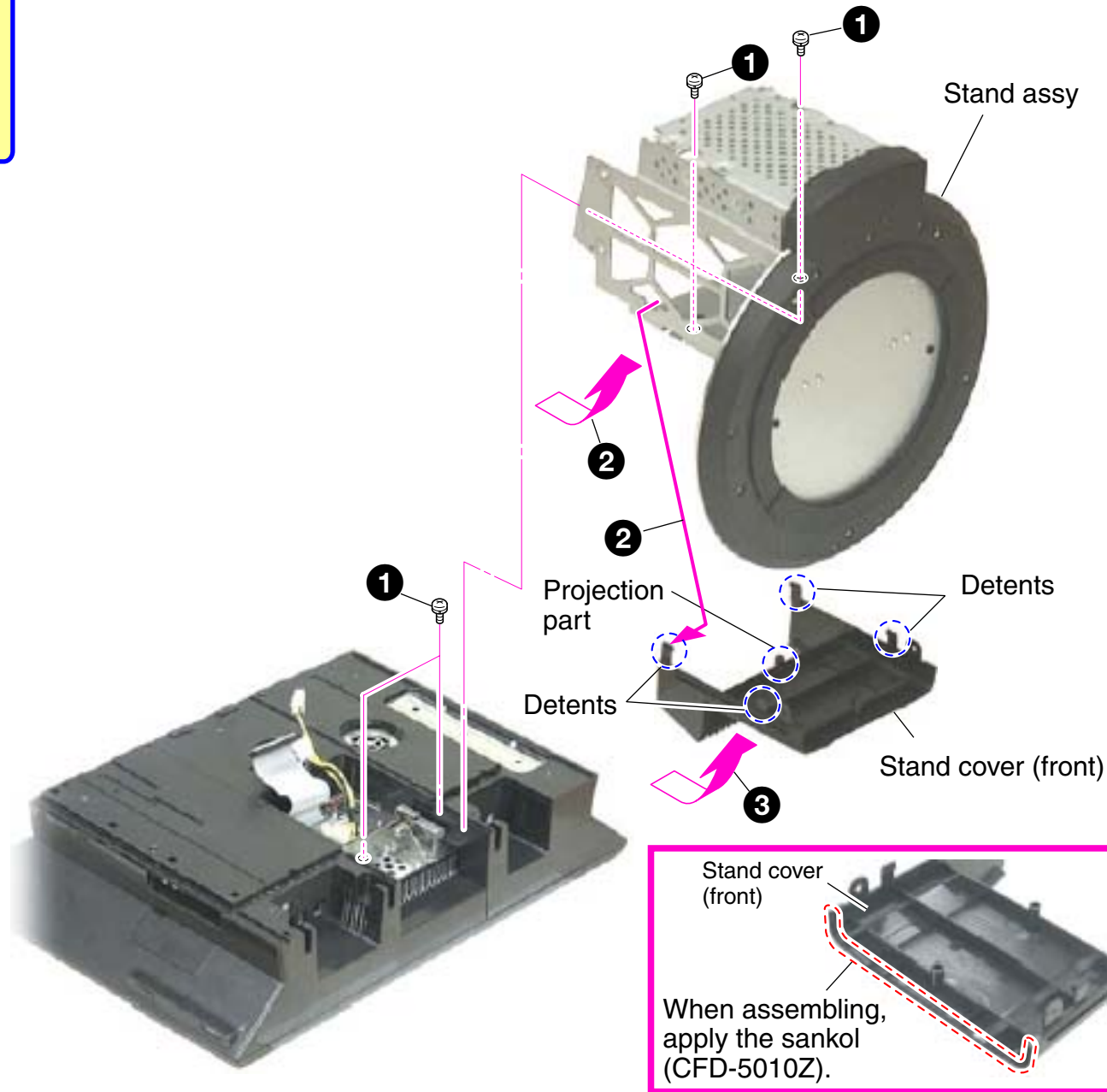


Ref. No 165
+K (#6-32UNC 1/4)
2-050-805-01
Black

8 Remove the switching power.

DISASSEMBLY

5


[To Flowchart](#)


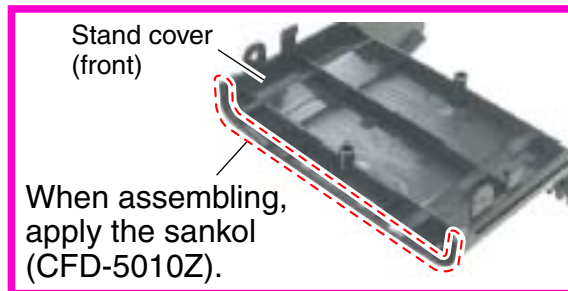
5 STAND ASSY

- 1 Remove the four screws.



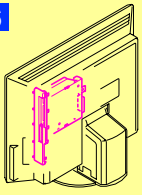
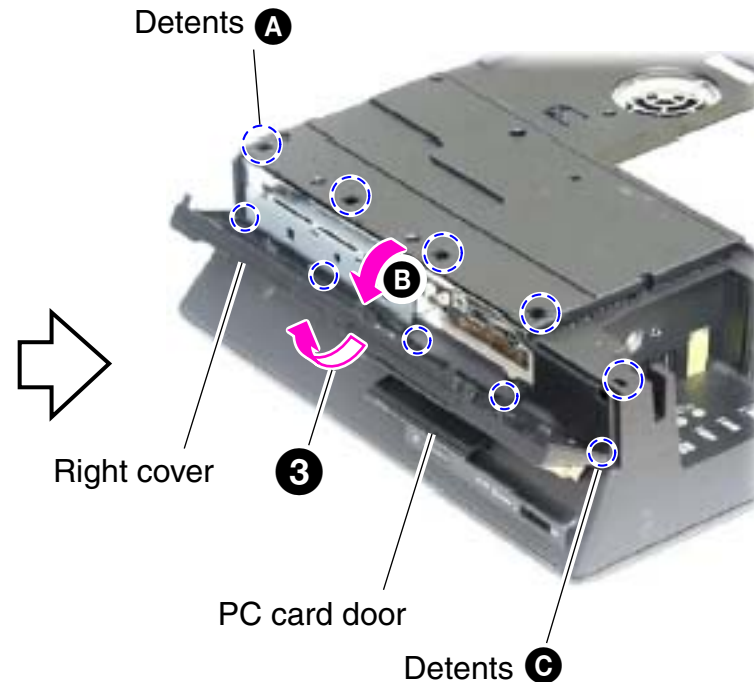
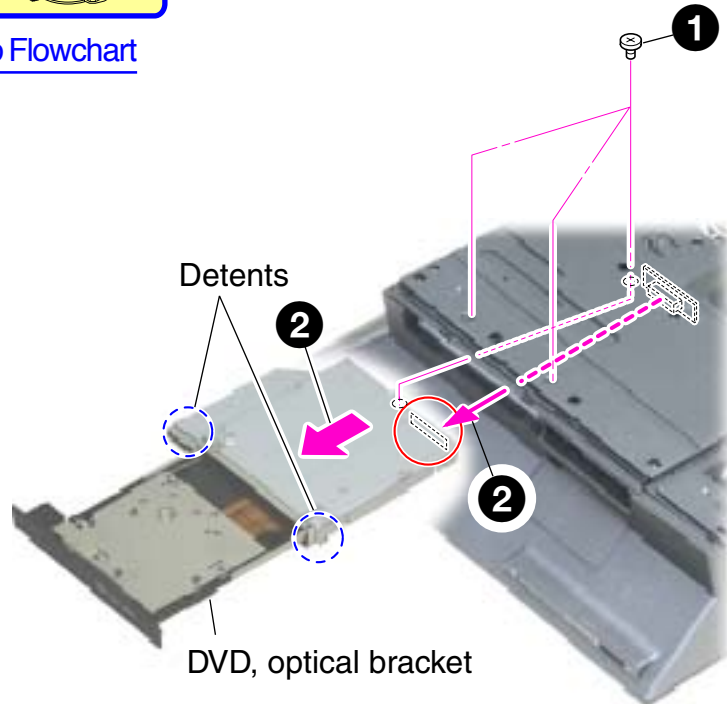
Ref. No 157
+PS (3 X 8)
2-067-022-01
Black

- 2 Disengage the four detents and the projection part and remove the stand assy.
- 3 Remove the stand cover (front) in the direction of the arrow.



DISASSEMBLY

6


[To Flowchart](#)


6 DVD-1, RIGHT COVER

- 1 Remove the three screws.



Ref. No 170
+B (3X4)
2-067-023-01
Black

- 2 Move, by sliding, the DVD, optical bracket in the direction shown by the arrow, and remove the DVD, optical bracket together from the set.

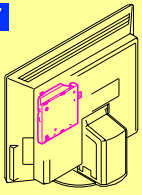
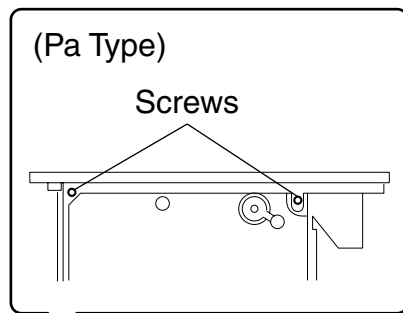
Be careful not to give physical stress (such as twisting) or excessive force when removing the DVD, optical bracket.

- 3 Disengage the five detents (A). While the PC card door is kept open, slant the right cover in the direction of the arrow (B), and remove five detents (C) the remove right cover from the set.

DISASSEMBLY

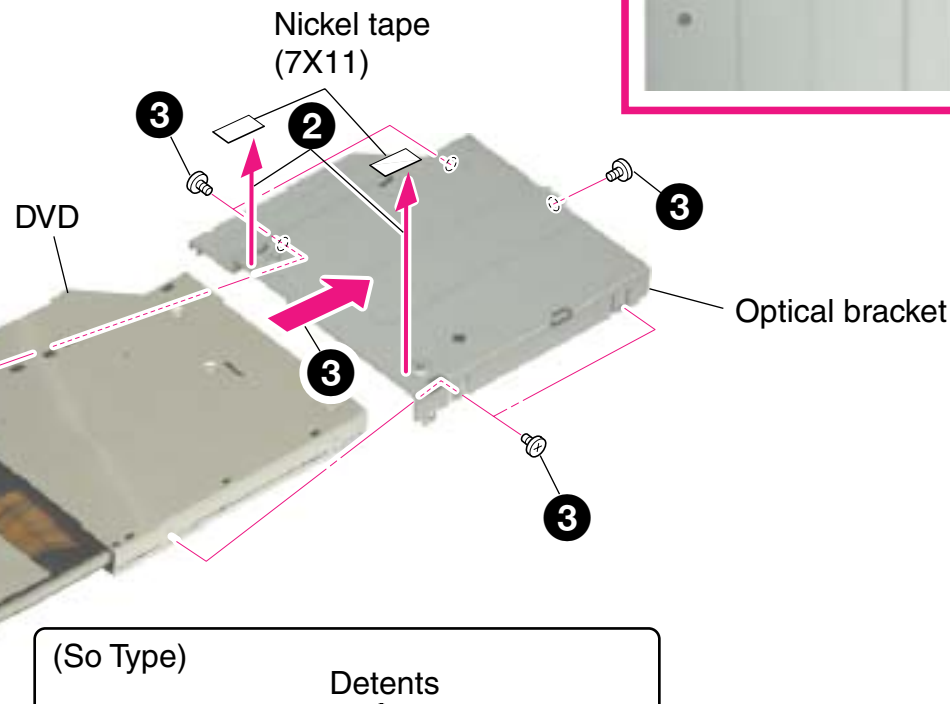
7 DVD-2

7


[To Flowchart](#)


1

Escutcheon (*1)



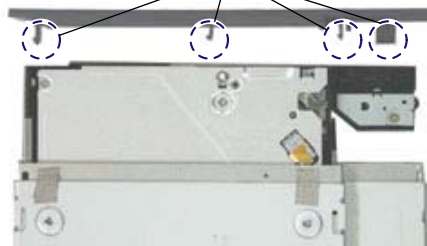
Tape attachment positions

Nickel tape (7X11)



(So Type)

Detents



Pa type

- 1 Remove the two screws, and remove the escutcheon.



Ref. No 267
+P PT 1.7x04
2-345-480-01
Black

So type

- 1 Disengage the four detents and remove the escutcheon.
Be careflu not to break the detents

- 2 Peel off the two nickel tape (7X11).
- 3 Remove the five screws and remove the optical bracket.



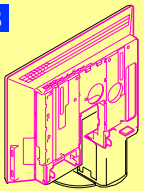
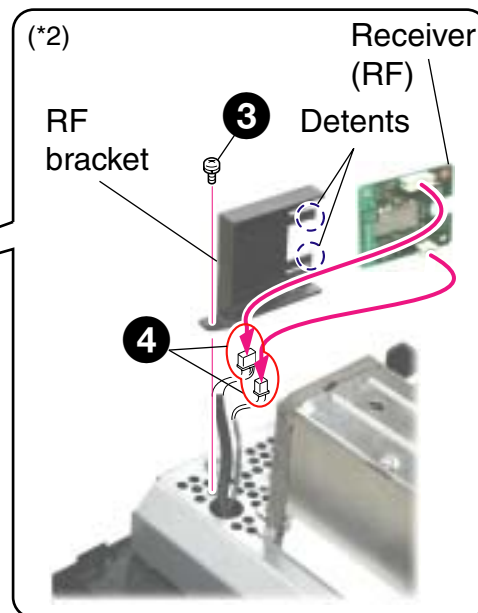
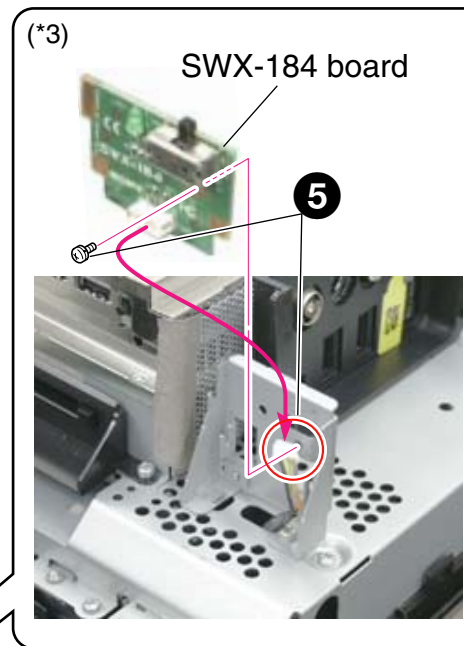
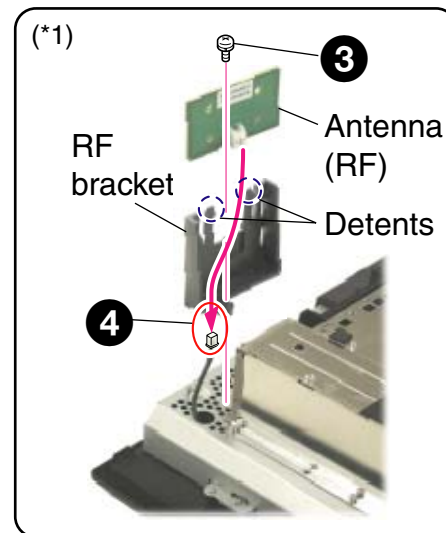
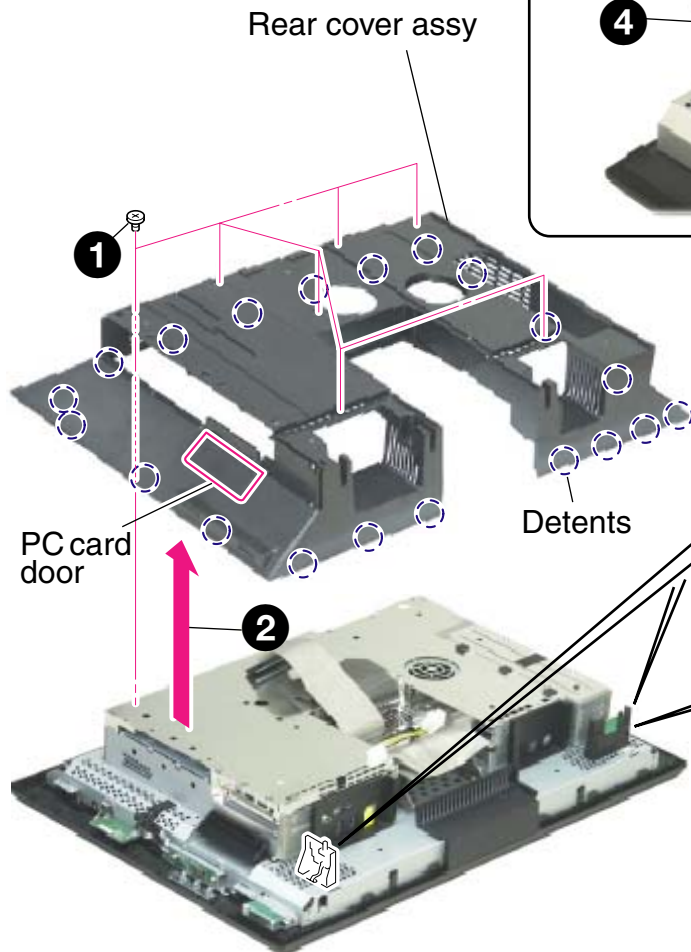
Ref. No 164
+P (2 X 2)
7-627-853-07
Silver

(*1) Shape of the escutcheon is different depending on the model.

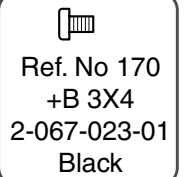
DISASSEMBLY

8 REAR COVER ASSY, SWX-184, ANNTENA (RF), RECEIVER (RF)

8


[To Flowchart](#)


- 1** Remove the seven screws.



- 2** Disengage the total 20 detents. Close the PC card door. While the PC card door is kept closed, remove the rear cover assy.

- 3** Remove the screw and remove the RF bracket.



- 4** Disconnect the connector and disengage the two detents, then remove the antenna (RF) (*1) or receiver (RF) (*2) from the RF bracket.

- 5** Remove the screw and remove the SWX-184 board (*3).



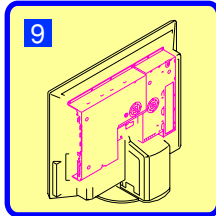
(*1) V517G/V617G Model only

(*2) V520G/V620G Model only

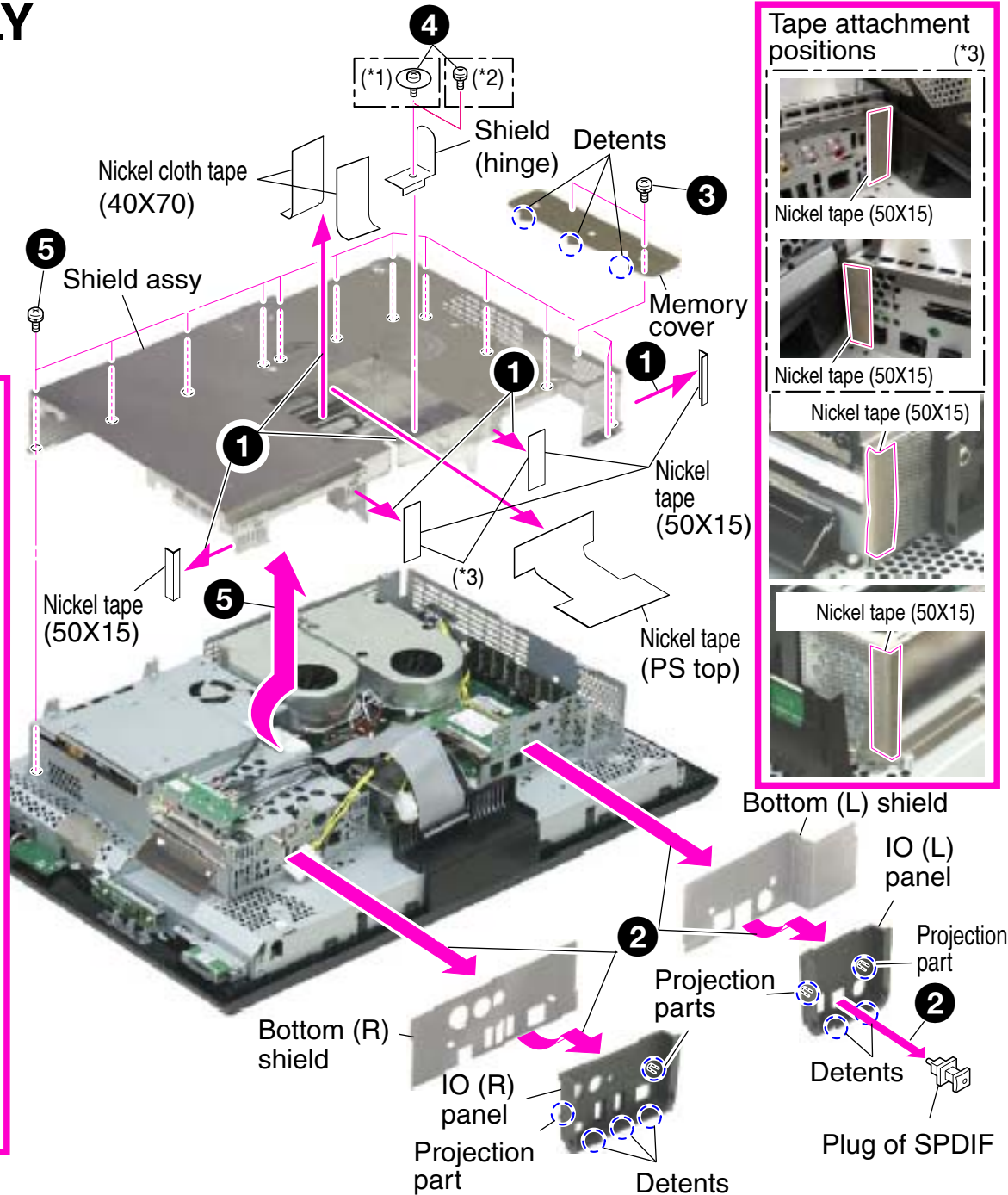
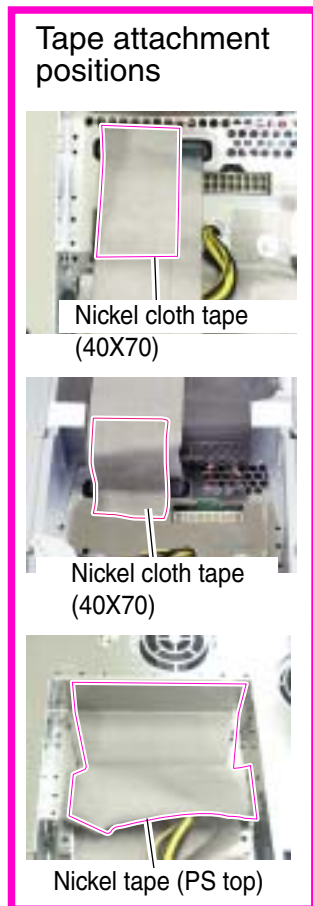
(*3) V520G/V617G/V620G Model only

9 SHIELD ASSY


DISASSEMBLY



To Flowchart




- 1** Peel off the four nickel tape (50X15), nickel tape (PS top) and the two nickel cloth tape (40X70).
- 2** Remove the Plug of SPDIF. Then disengage the three detents, two projection parts and remove the two IO panels and two bottom shields.
- 3** Remove the two screws and remove the memory cover.




Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver
- 4** Remove the two screws and remove the shield (hinge).

(*)




Ref. No 168
(M 3X5)
3-081-229-01
Silver

(*)



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver
- 5** Remove the twelve screws and remove the shield assy.



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

(*1) V517G/V520G Model only

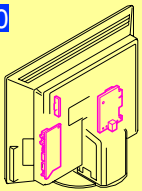
(*2) V617G/V620G Model only

(*3) V517G/V617G Model only

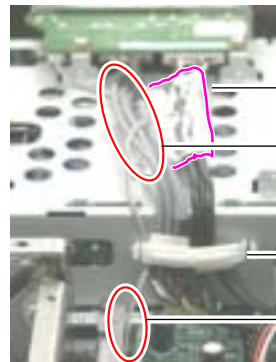
DISASSEMBLY

10 CNX-263, IFX-341 CNR MODEM

10


[To Flowchart](#)

Tape attachment positions, routing the cables



Aluminium tape
(50X70)

Cross the cable (1)

Wire press clamp

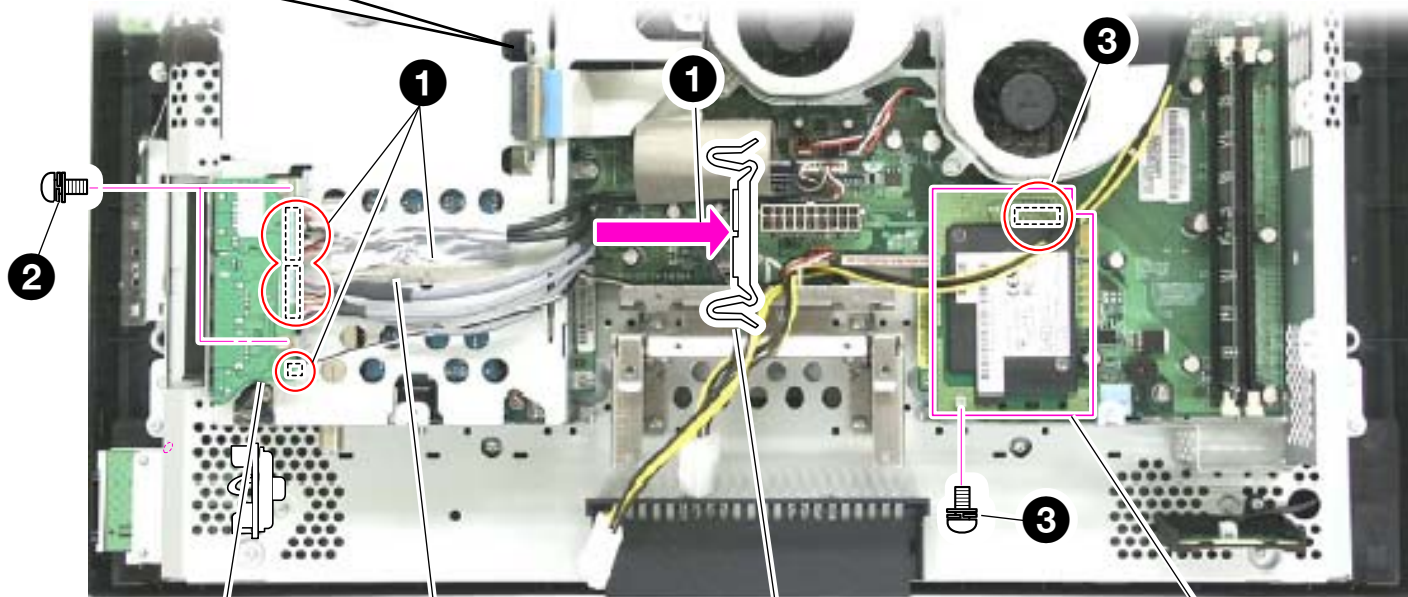
Be careful that the harness
should not be located 3 mm
or more away from
the Mother Board.



Route the harness (1)
in between the IDE
connector and capacitor.

IFX-341 board

4



CNX-263 board Aluminium tape (50X70) Wire press clamp

CNR modem

- 1 Remove the wire press clamp and peel off the aluminium tape (50X70). Disconnect the three connector.

- 2 Remove the two screws and remove the CNX-263 board.



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

- 3 Remove the screw and disconnect the connector, then remove the CNR modem.



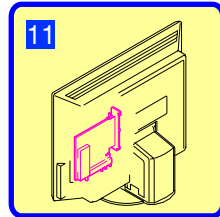
Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

- 4 Remove the two screws and disconnect the connector, then remove the IFX-341 board.

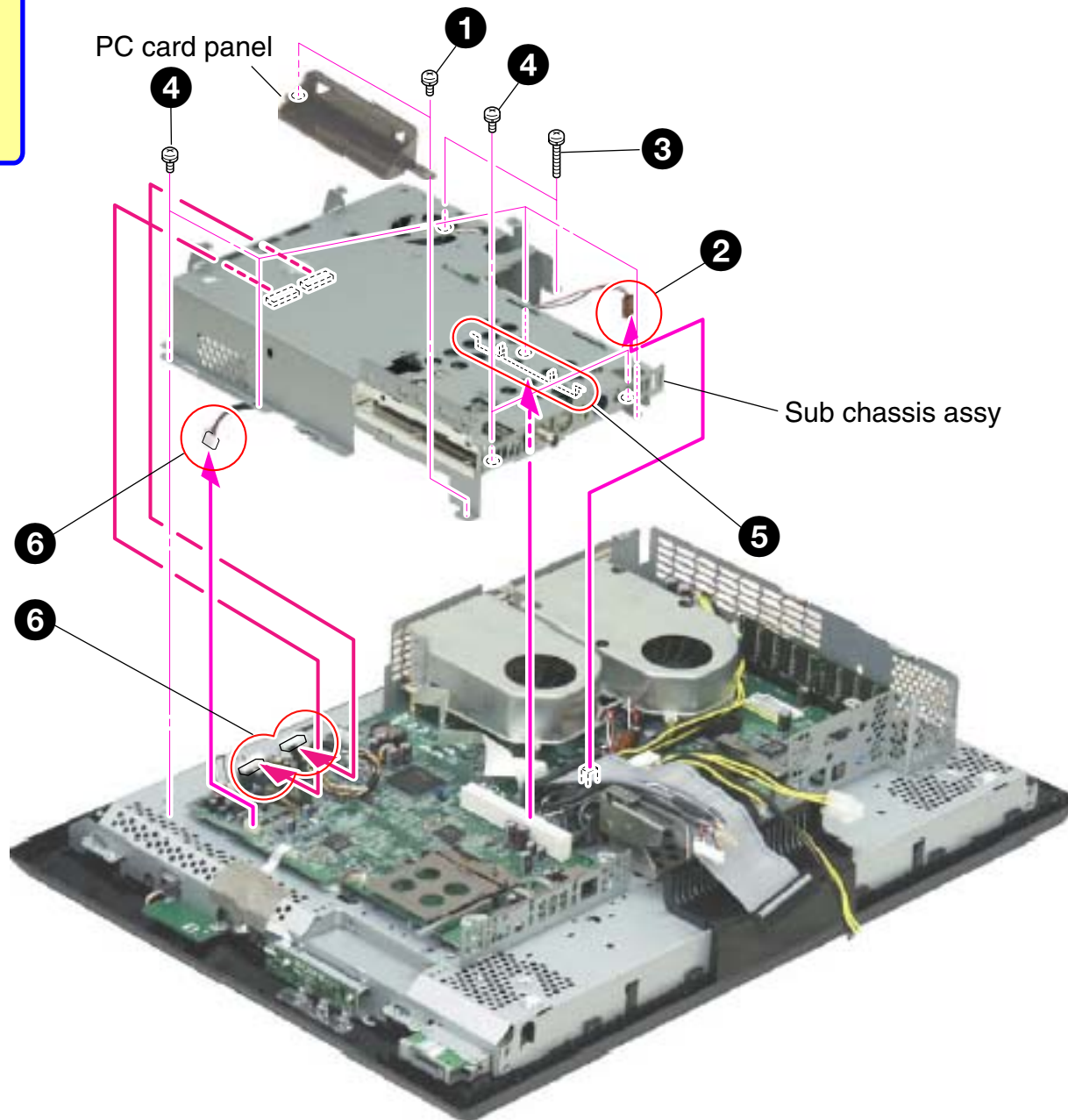


Ref. No 151
+B (2 X 3)
2-108-226-01
Black

DISASSEMBLY



[To Flowchart](#)



11 SUB CHASSIS ASSY

- 1 Remove the two screws and remove the PC card panel.



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

- 2 Disconnect the connector.

- 3 Remove the two screws.



Ref. No 156
+PS (3 X 22)
2-109-403-01
Silver

- 4 Remove the six screws.



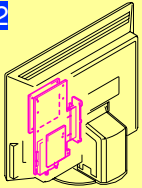
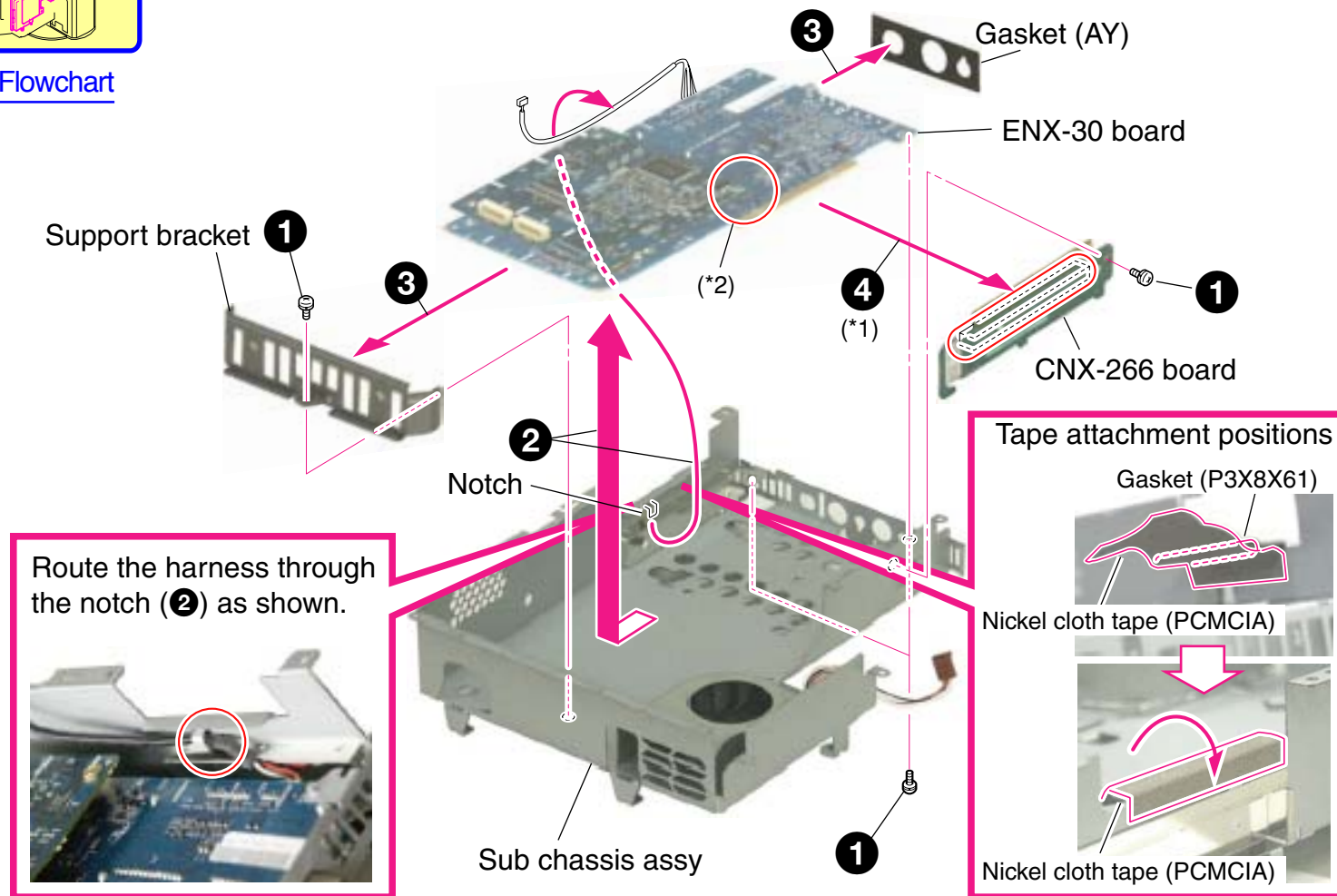
Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

- 5 Lift up the sub chassis assy and disconnect the connector.

- 6 Disconnect the three connectors.

DISASSEMBLY

12


[To Flowchart](#)


12 ENX-30, CNX-266

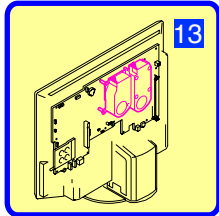
- ① Remove the four screws.
- ② Remove the harness from the notch. Remove, by sliding, the ENX-30 board and CNX-266 board.
- ③ Remove the gasket (AY) and support bracket.
- ④ Disconnect the connector and remove the CNX-266 board from the ENX-30 board.



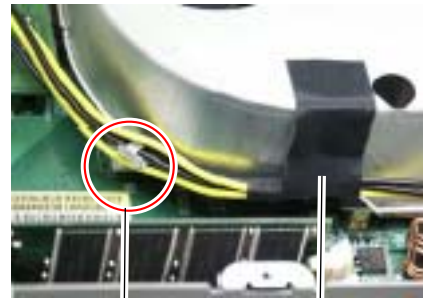
Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

- (*1) When inserting the ENX-30 board into the CNX-266 board, repeat pushing the ENX-30 board twice to ensure the secure connection.
- (*2) Because there is no support for the CNX-266 board within the encircled area, never touch this portion to avoid any damages.

DISASSEMBLY



To Flowchart



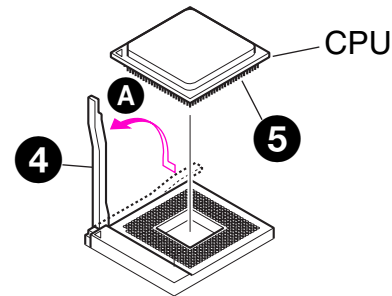
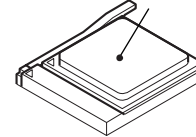
Acetate tape
Route the two black harness through the notch as shown.

To replace the CPU or heat sink (in case that CPU is equipped with heat sink), install new CPU or heat sink after thermal dissipation grease is wiped off and apply the grease to the position shown in the figure.

Thermal dissipation grease: Silicon compound (G-765) 90G
Amount of application: 0.5 g (equivalent to twice the size a wooden safety match head)

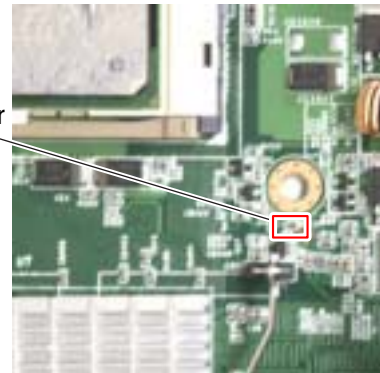
* Take care not to apply the grease to any other places because it has high conductivity.

Grease
(on the entire surface of heat splitter)



Notes on installing the DC fan

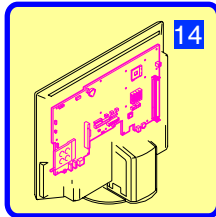
During installation, be careful not to damage the chips on the Mother Board as shown in the illustration.



13 DC FAN, CPU

- 1 Peel off the acetate tape.
- 2 Disconnect the two connectors.
- 3 Remove the four screws included in the DC fan.
- 4 Raise the lever in the direction of the arrow(A).
- 5 Pull the CPU straight up and remove it.

DISASSEMBLY



To Flowchart

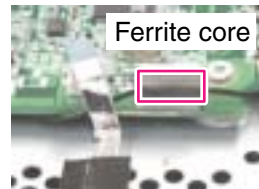
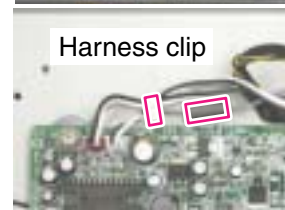
Bind the harnesses with the wire clamp.
(Purse Lock DIA.8)



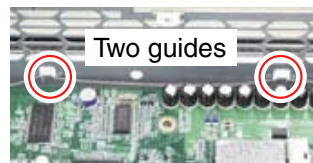
When assembling, Route the harness (①) in the shown the pictures. (*1)



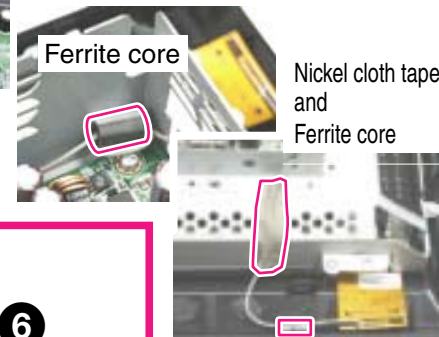
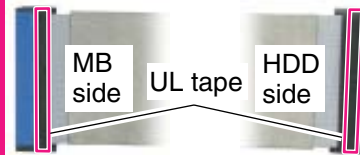
Harness clip



Two guides



When assembling, press the UL tape with finger in the way of tracing the UL tape from one end up to the other end.



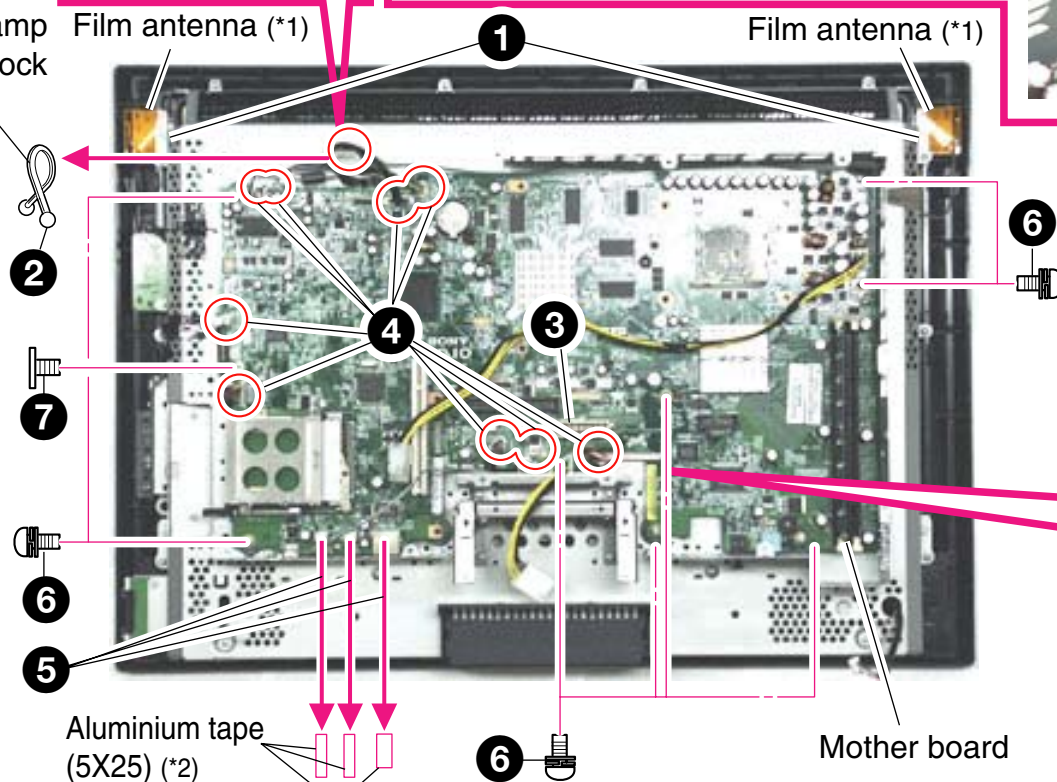
Route the harness through the notch as shown.



Wire clamp
(Purse lock DIA.8)

Film antenna (*1)

Film antenna (*1)



Aluminium tape
(5X25) (*2)

Mother board

14 MOTHER BOARD

- ① Remove the two film antennas and cables (*1).
- ② Remove the harness from the wire clamp.
- ③ Remove the harness from the wire saddle.
- ④ Disconnect the nine connectors.
- ⑤ Peel off the aluminium tape (5X25) (*2).
- ⑥ Remove the eight screws.
- ⑦ Remove the screw and remove the mother board.



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

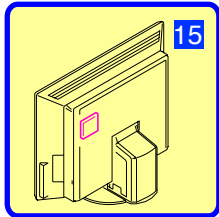


Ref. No 162
POSITIONING SCREW
4-678-103-01
Silver

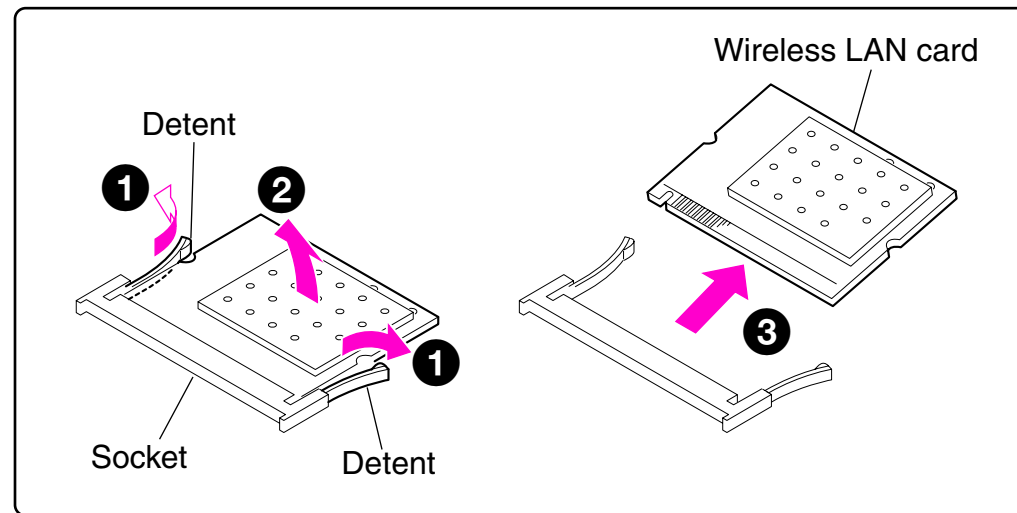
(*1) V520G/V617G/V620G Model only
(*2) V517G/V520G Model only

DISASSEMBLY

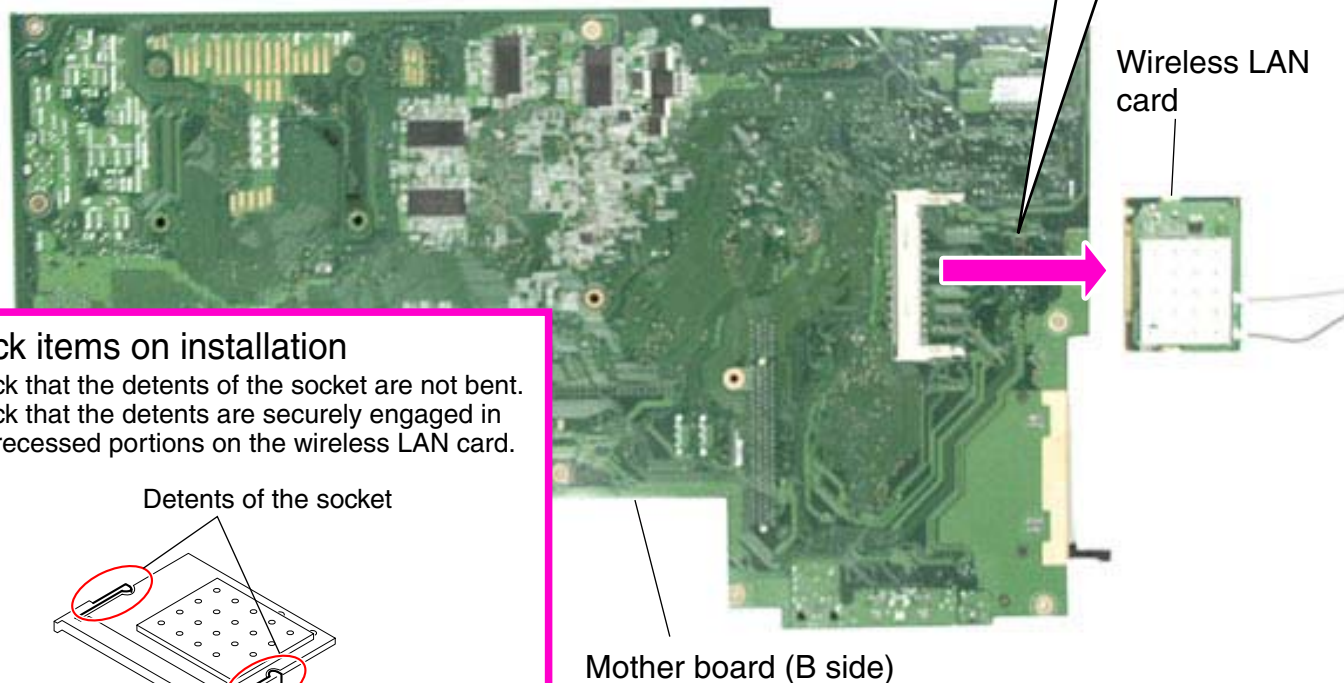
15 WIRELESS LAN CARD (VGC-V520G/V617G/V620G)



[To Flowchart](#)

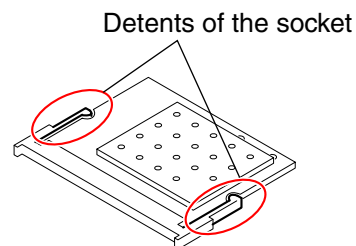


- ❶ Open the two detents of the socket gently toward outside.
- ❷ Raise the W-LAN card.
- ❸ Pull the W-LAN card in an upward angle.

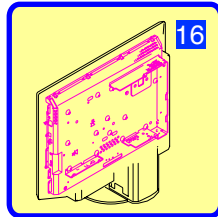


Check items on installation

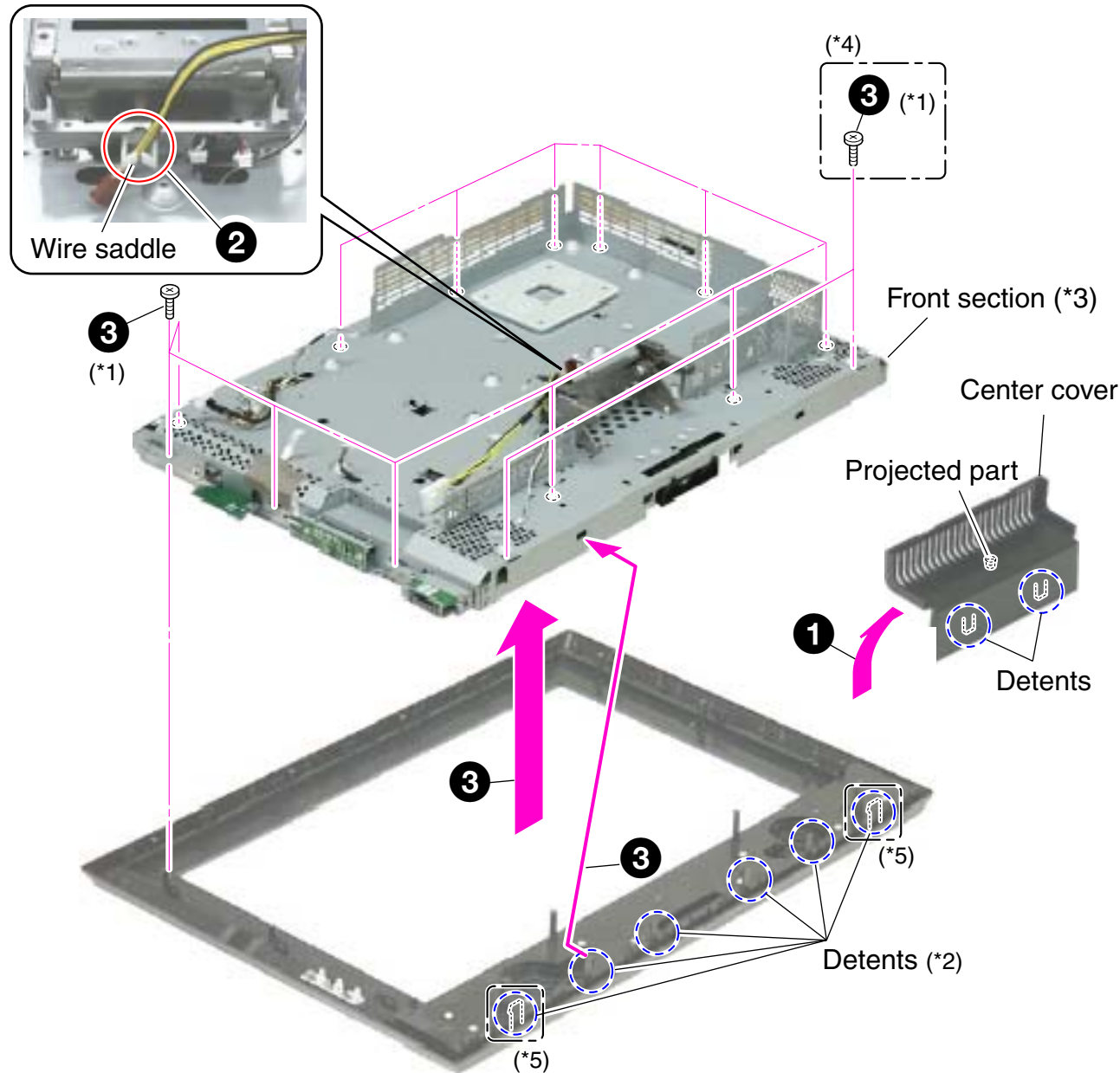
- Check that the detents of the socket are not bent.
- Check that the detents are securely engaged in the recessed portions on the wireless LAN card.



DISASSEMBLY



[To Flowchart](#)



16 FRONT SECTION

- ❶ Disengage the two detents and remove the center cover.
- ❷ Remove the cable from the wire saddle.
- ❸ Remove the screws (*1) and disengage the detents (*2). Remove the LCD section.

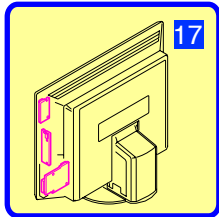


Ref. No 154
TAPPING P+3
2-067-021-01
Silver

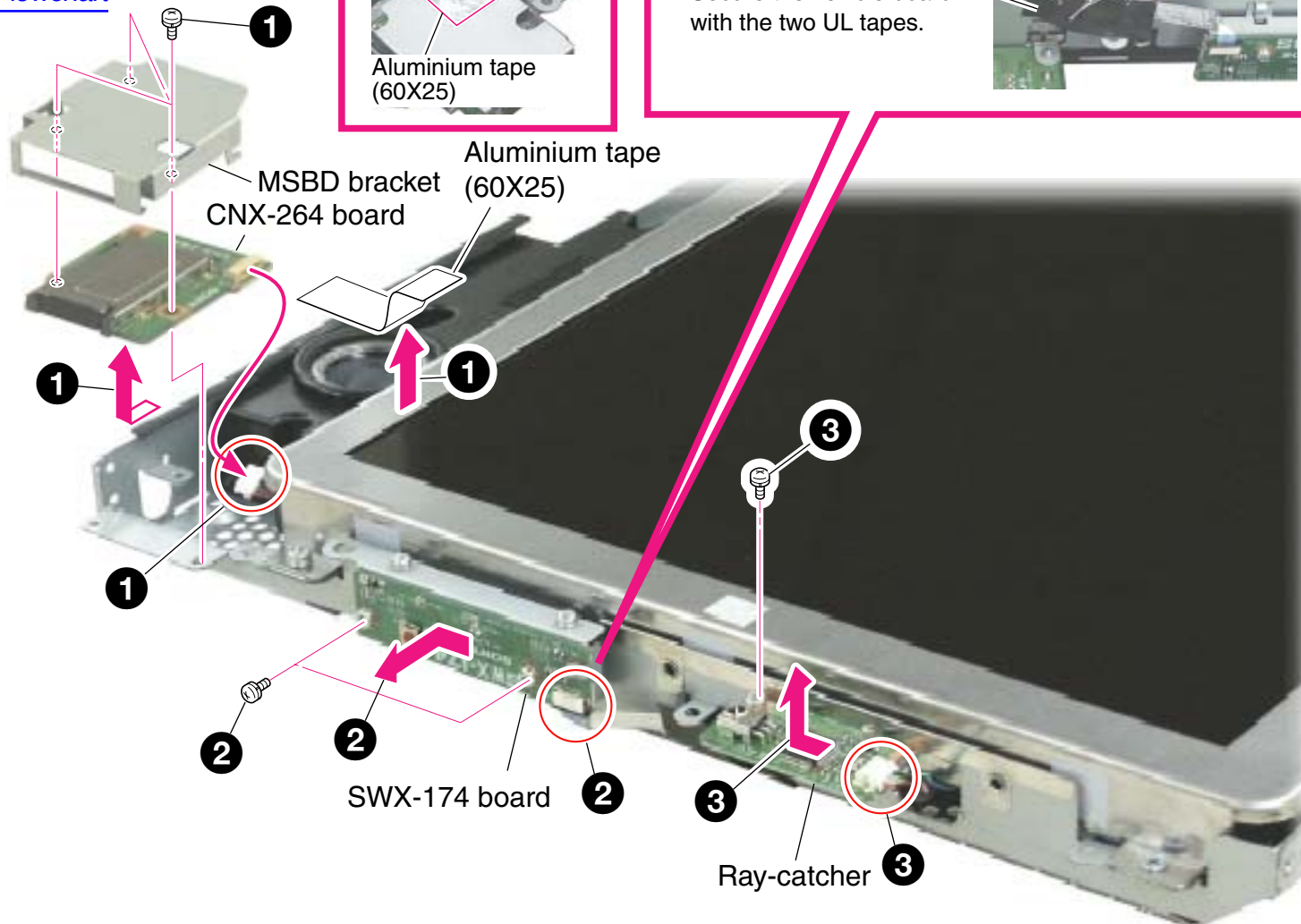
- (*1) Number of screws is different depending on the model.
V520G/V620G : 14 screws
V517G/V617G : 12 screws
- (*2) Number of detents is different depending on the model.
V520G/V620G : 14 detents
V517G/V617G : 6 detents
- (*3) Shape of the front section is different depending on the model.
- (*4) V520G/V620G Model only
- (*5) V517G/V617G Model only

DISASSEMBLY

17 CNX-264, SWX-174, RAY-CATCHER (VGC-V520G/V620G)



[To Flowchart](#)



- 1 Peel off the aluminium tape (60X25) and disconnect the connector, and remove the three screws. Then remove the MSBD bracket and the CNX-264 board.



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

- 2 Disconnect the connector and remove the two screws, and remove the SWX-174 board.



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

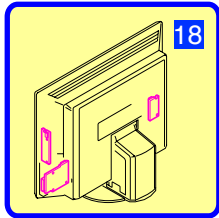
- 3 Disconnect the connector and remove the screw, then remove the Ray-catcher.



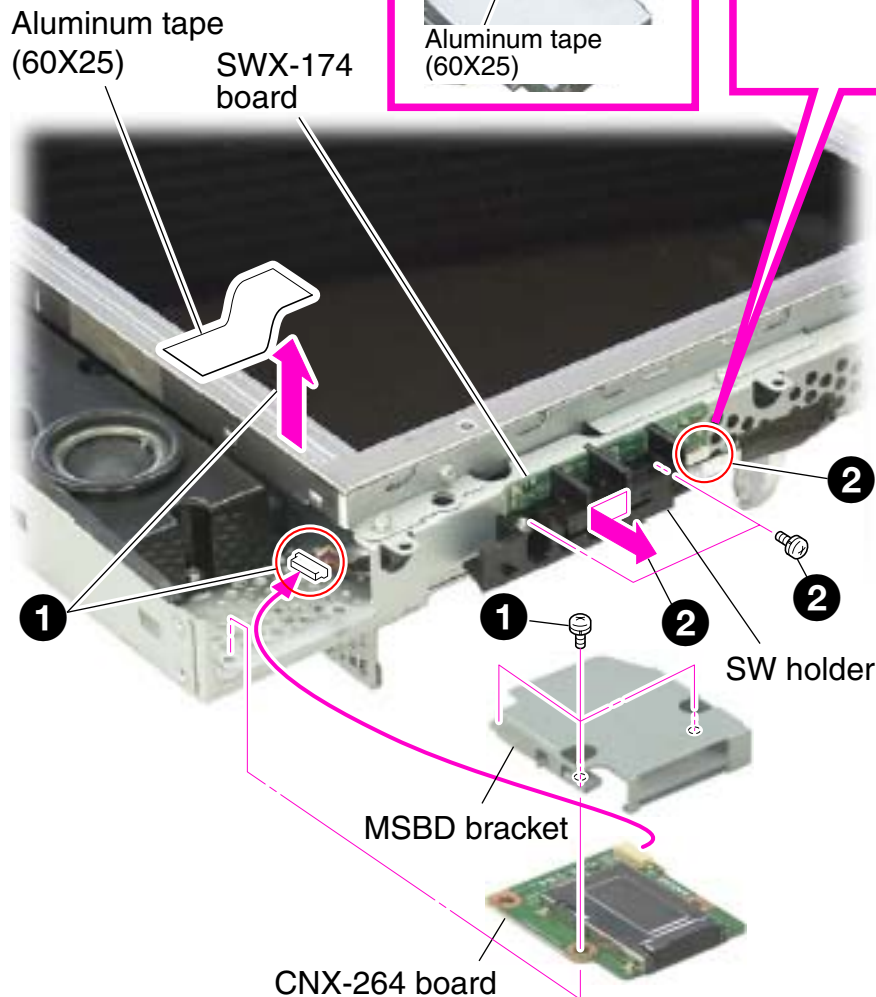
Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

DISASSEMBLY

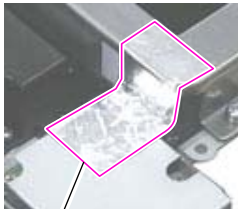
18 CNX-264, SWX-174, RAY-CATCHER (VGC-V517G/V617G)



[To Flowchart](#)



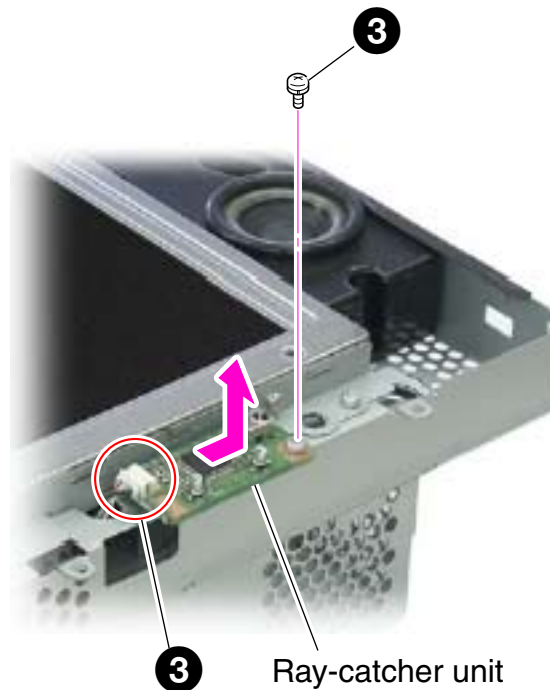
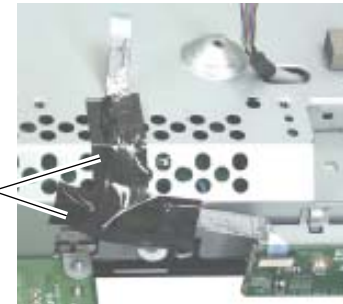
Tape attachment positions



Aluminum tape (60X25)

Route the two flexible board through the notch as shown.

Secure the flexible board with the two UL tape.



- 1 Peel off the aluminum tape (60X25) and disconnect the connector, and remove the three screws. Then remove the MSBD bracket and the CNX-264 board.



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

- 2 Disconnect the connector and remove the two screws, and remove the SW holder and the SWX-174 board.



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

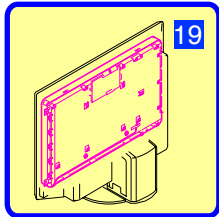
- 3 Disconnect the connector and remove the screw, then remove the Ray-catcher unit.



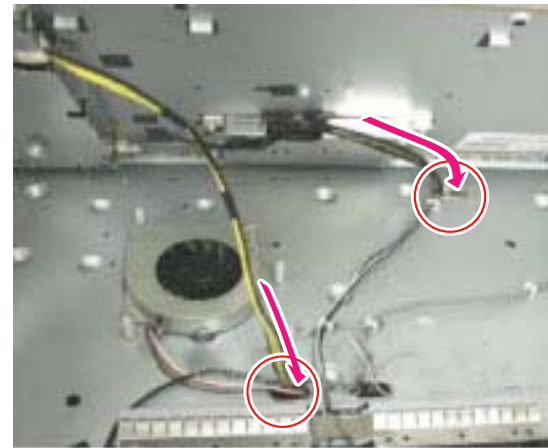
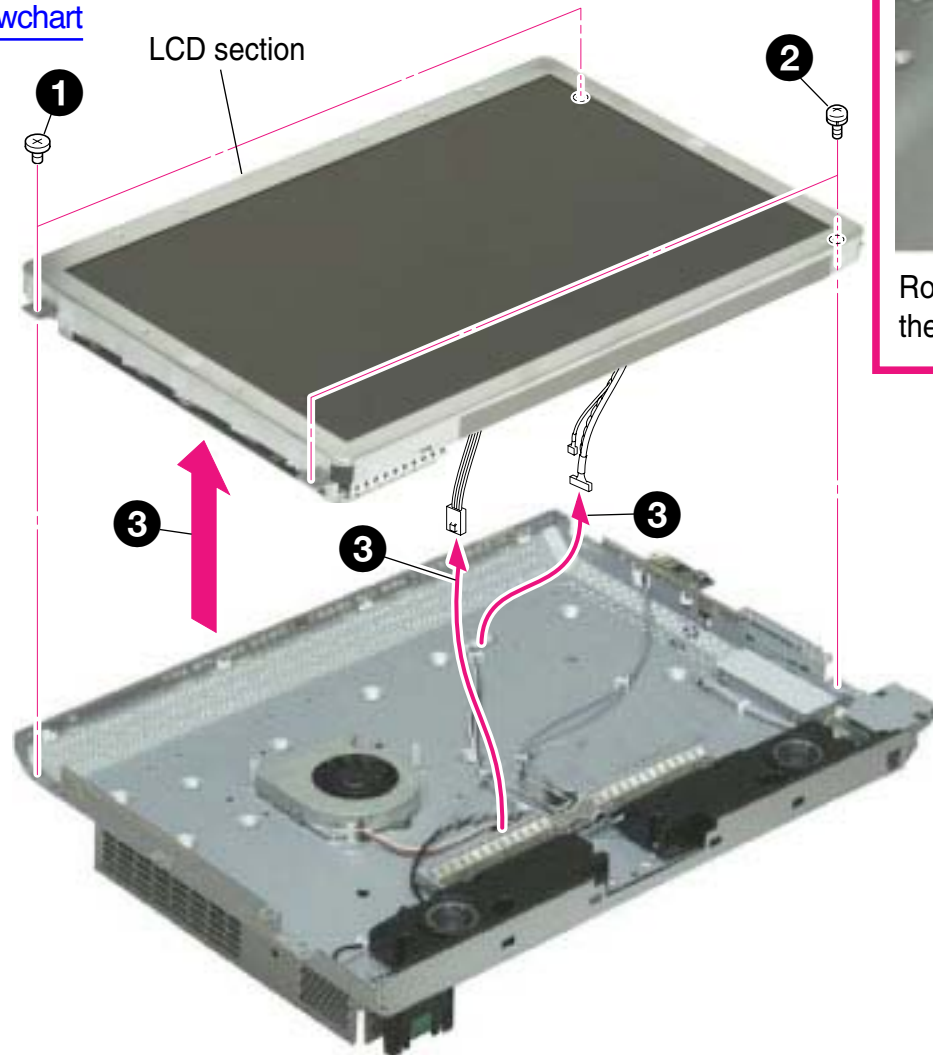
Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

DISASSEMBLY

19 LCD SECTION (VGC-V520G/V620G)



[To Flowchart](#)



Route the two flexible boards (3) through the hole of the chassis as shown.

- 1 Remove the two screws.



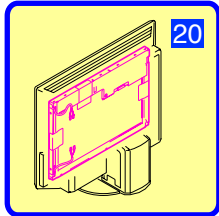
- 2 Remove the two screws.



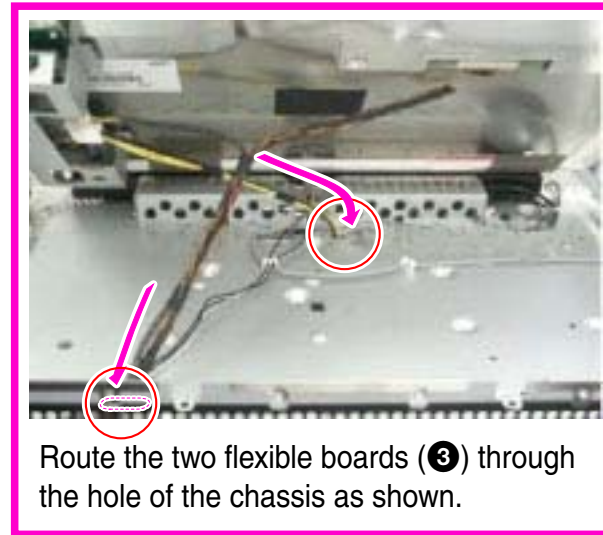
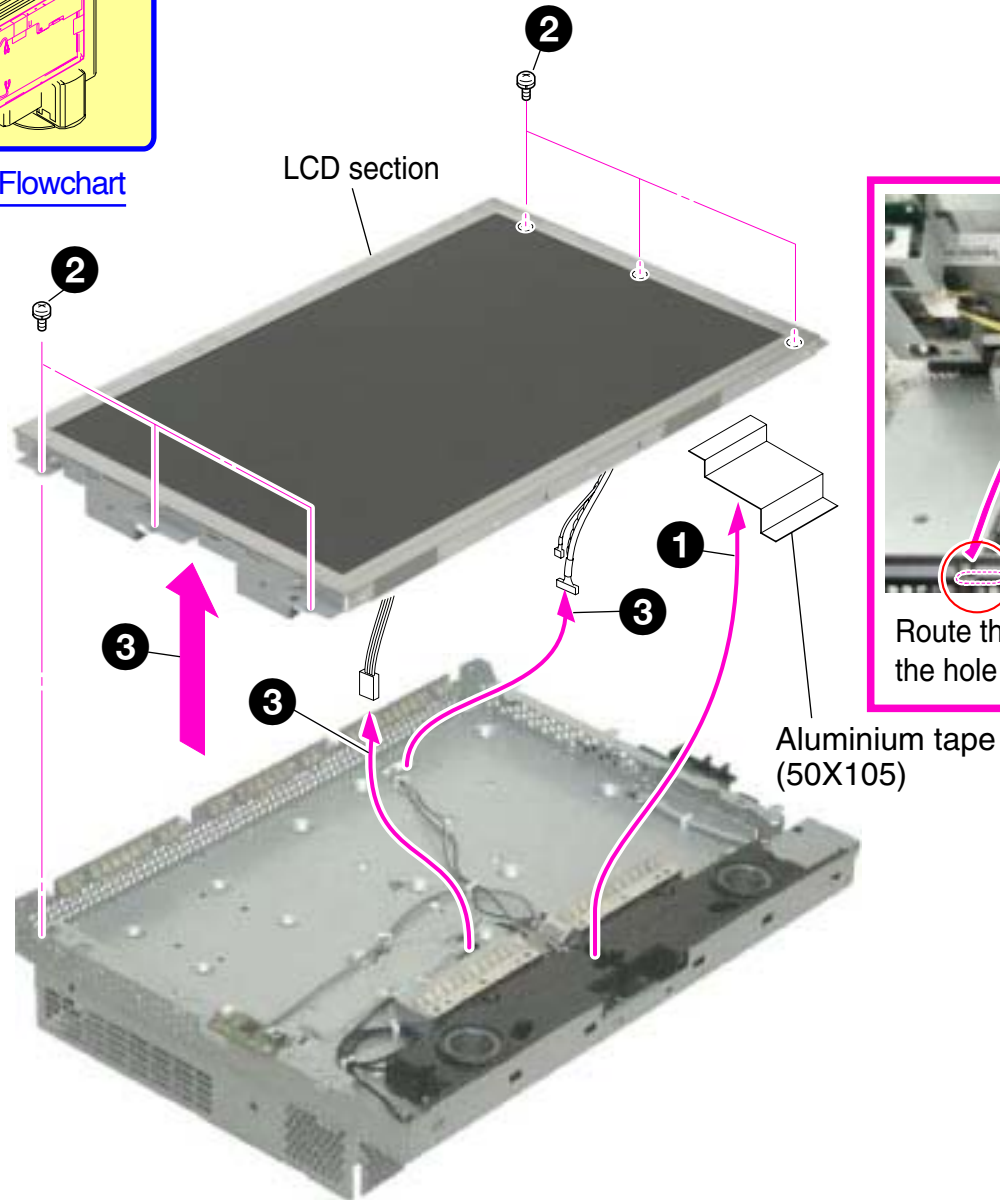
- 3 While removing the two harnesses through the hole of the chassis, remove the LCD section.

DISASSEMBLY

20 LCD SECTION (VGC-V517G/V617G)



[To Flowchart](#)



1 Peel off the aluminium tape (50X105).

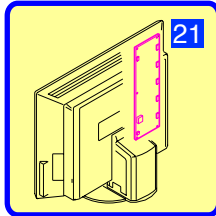
2 Remove the six screws.



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

3 While removing the two harnesses through the hole of the chassis, remove the LCD section.

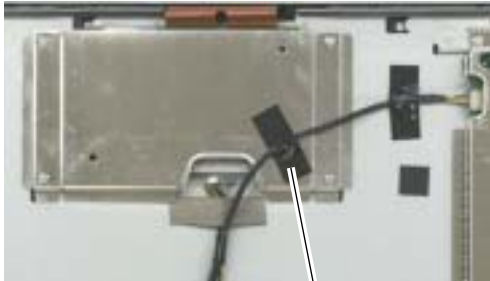
DISASSEMBLY



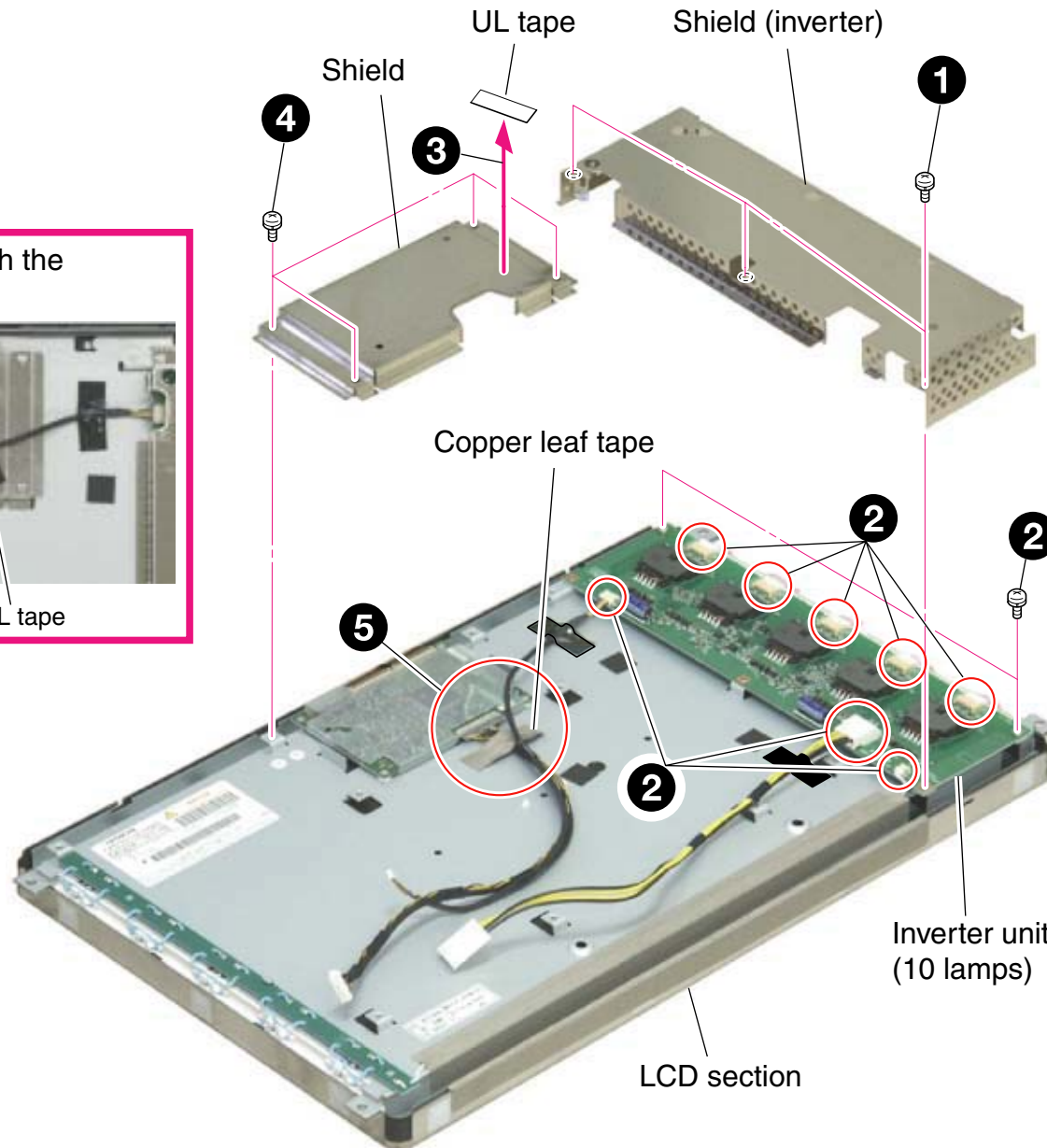
[To Flowchart](#)

21 INVERTER UNIT (VGC-V520G/V620G)

Secure the cable with the UL tape (3).



UL tape



- 1** Remove the three screws and remove the shield (inverter).



- 2** Remove the two screws, disconnect the eight connectors and remove the inverter unit.



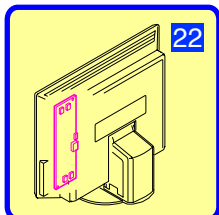
- 3** Peel off the UL tape.

- 4** Remove the four screws and remove the shield.



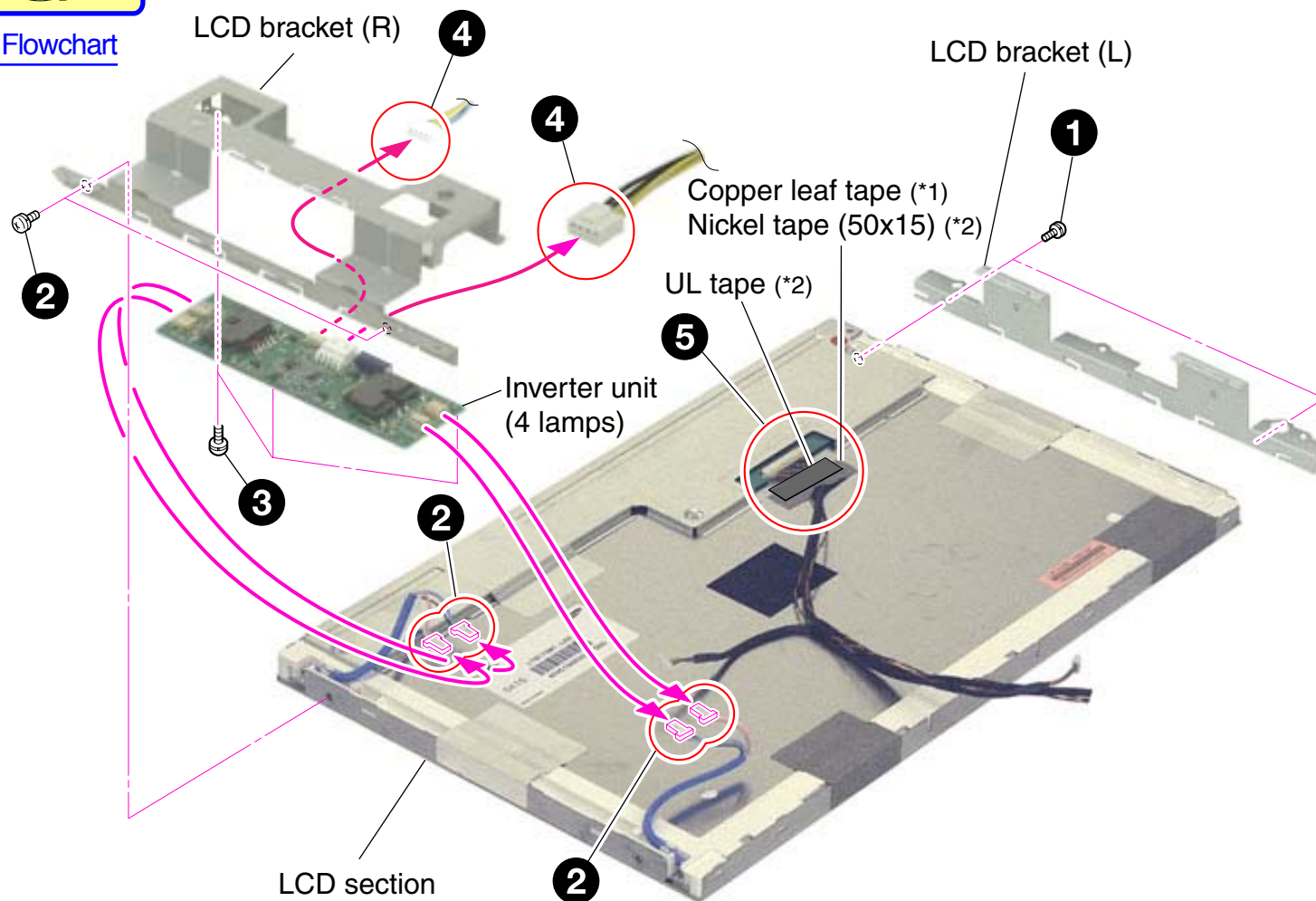
- 5** Peel off the copper leaf tape and disconnect the connector.

DISASSEMBLY



[To Flowchart](#)

22 INVERTER UNIT (VGC-V517G/V617G)



- 1** Remove the two screws and remove the LCD bracket (L).



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

- 2** Remove the two screws, disconnect the four connectors and remove the inverter unit, LCD bracket (R).



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

- 3** Remove the three screws and remove the inverter unit from the LCD bracket (R).



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

- 4** Disconnect the four connectors.

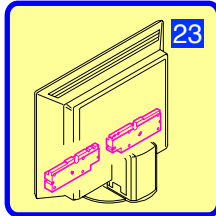
- 5** Peel off the copper leaf tape (*1) or nickel tape (50x15), UL tape (*2) and disconnect the connector.

(*1) V517G Model only

(*2) V617G Model only

DISASSEMBLY

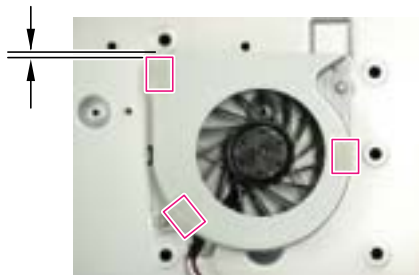
23 SPEAKER UNIT (VGC-V520G/V620G)



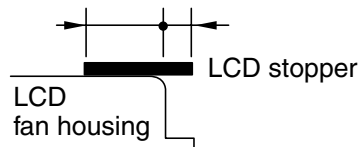
[To Flowchart](#)

Notes on installing the LCD stopper

Position: 5 mm away from the opening of the fan.



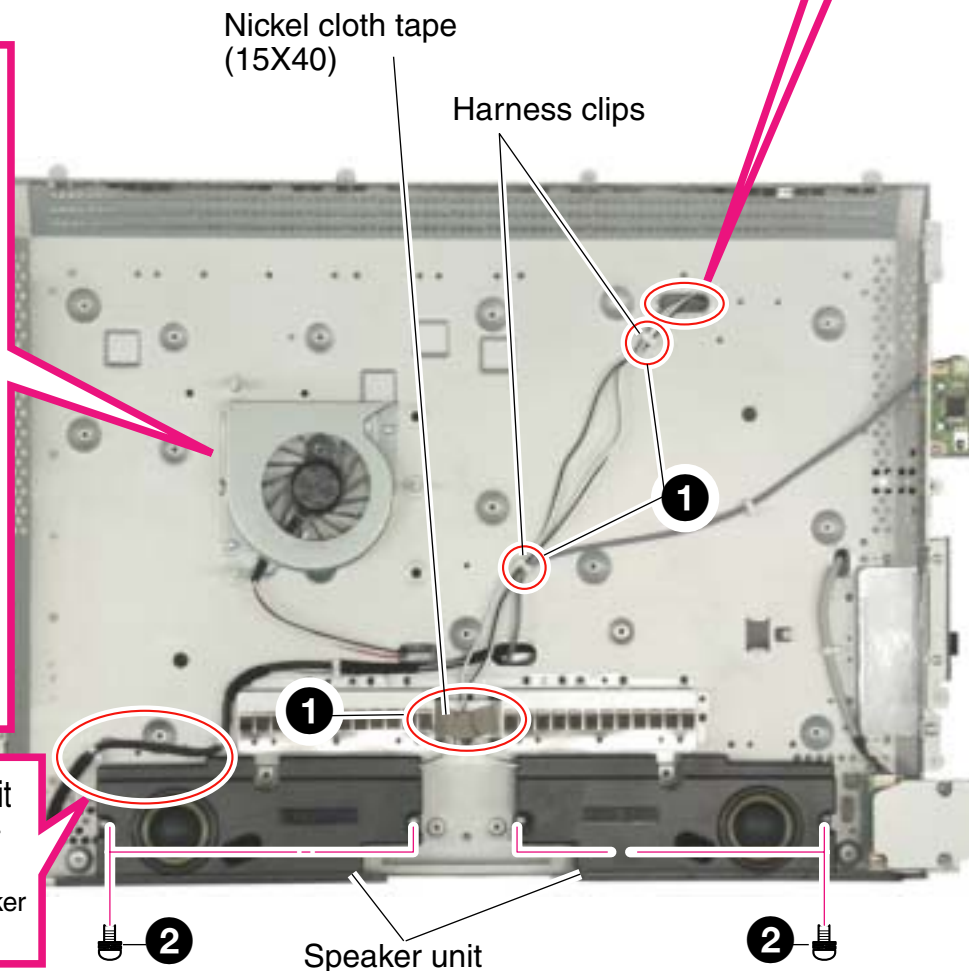
Install it so that about one third of the LCD stopper protrudes from the LCD fan housing.



Notes on installing the speaker unit

- Check that any part of the speaker does not ride over the harness.
- Push the harness against the speaker after installing the speaker.

Fix the harness at the two positions as shown using the nickel cloth tape (IDE) (15 x 40) and the two harness clips. Then route the harness through the hole of the chassis.



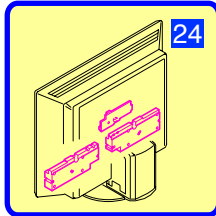
- 1 Peel off the nickel cloth tape (15X40) from the harness of the speaker unit and remove it from the two harness clip.
- 2 Remove the four screws and remove the speaker unit.



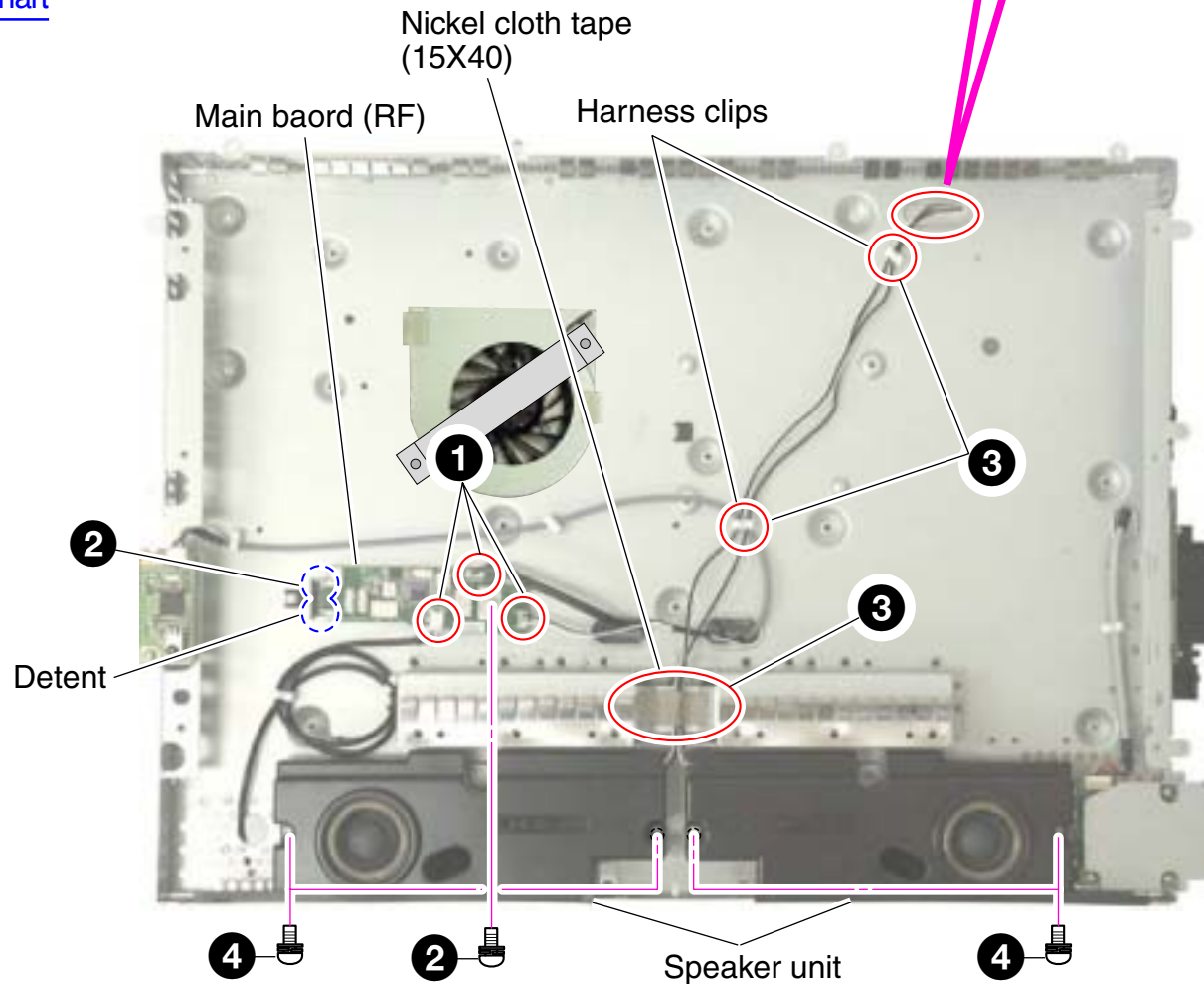
Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

DISASSEMBLY

24 SPEAKER UNIT (VGC-V517G/V617G)



[To Flowchart](#)



Fix the harness at the two positions as shown using the nickel cloth tape (IDE) (15 x 40) and the two harness clips. Then route the harness through the hole of the chassis.

- ❶ Disconnect the three connectors.
- ❷ Remove the screw and two detent remove the Main board (RF).



Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

- ❸ Peel off the nickel cloth tape (15X40) from the harness of the speaker unit and remove it from the two harness clip.
- ❹ Remove the four screws and remove the speaker unit.

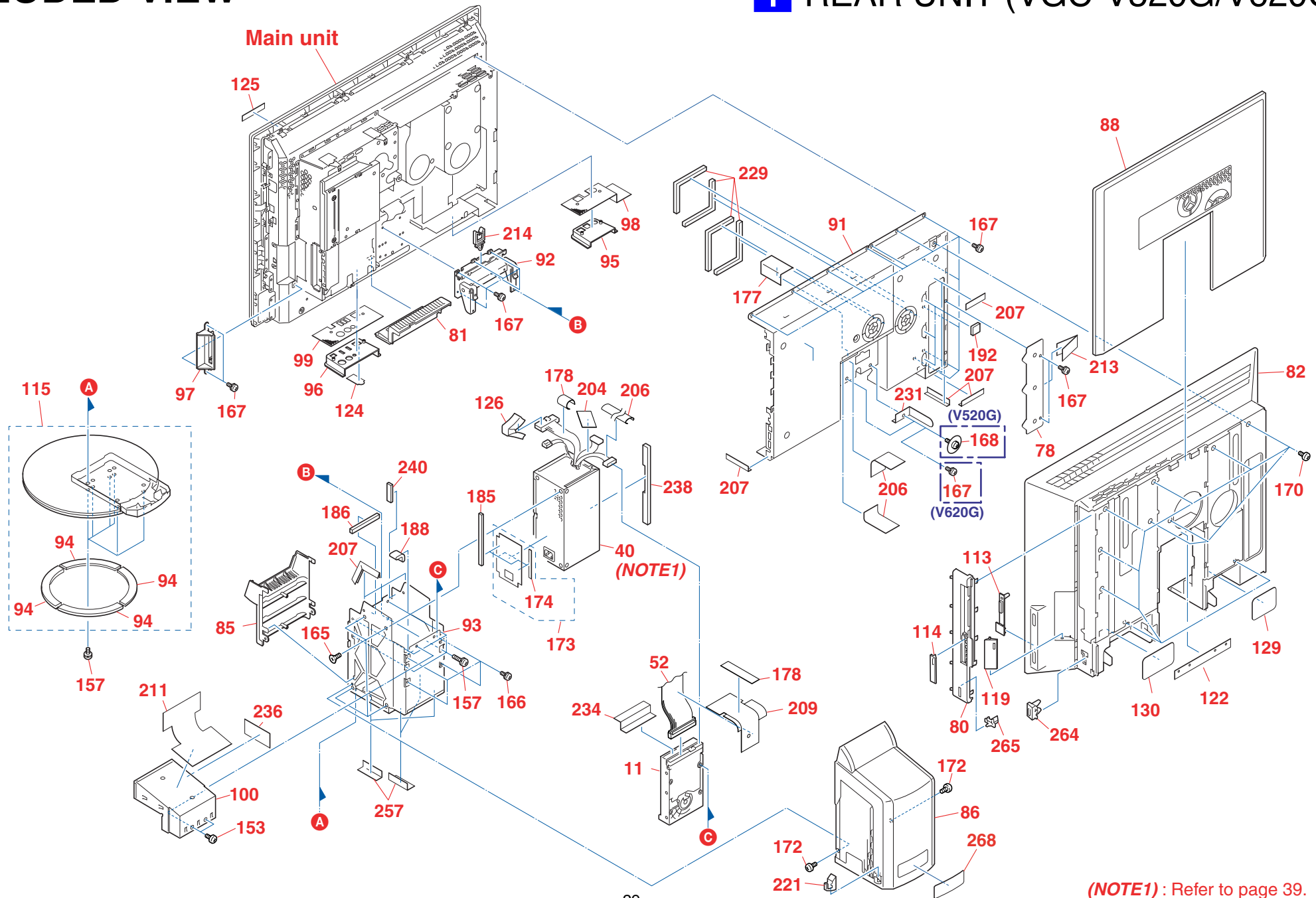


Ref. No 167
+PS (3 X 6)
4-679-053-01
Silver

- 28 -

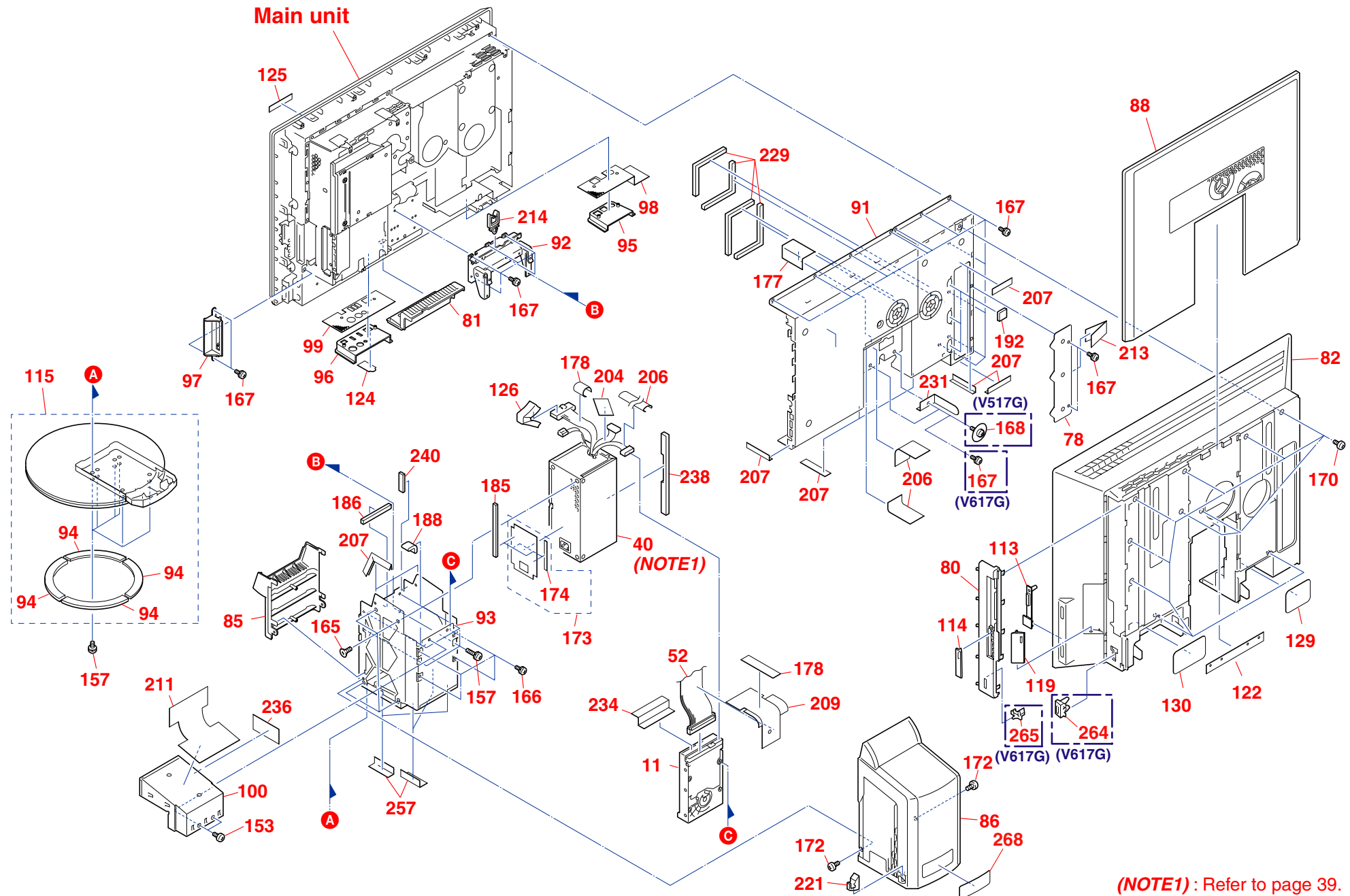
EXPLODED VIEW

1 REAR UNIT (VGC-V520G/V620G)



EXPLODED VIEW

2 REAR UNIT (VGC-V517G/V617G)

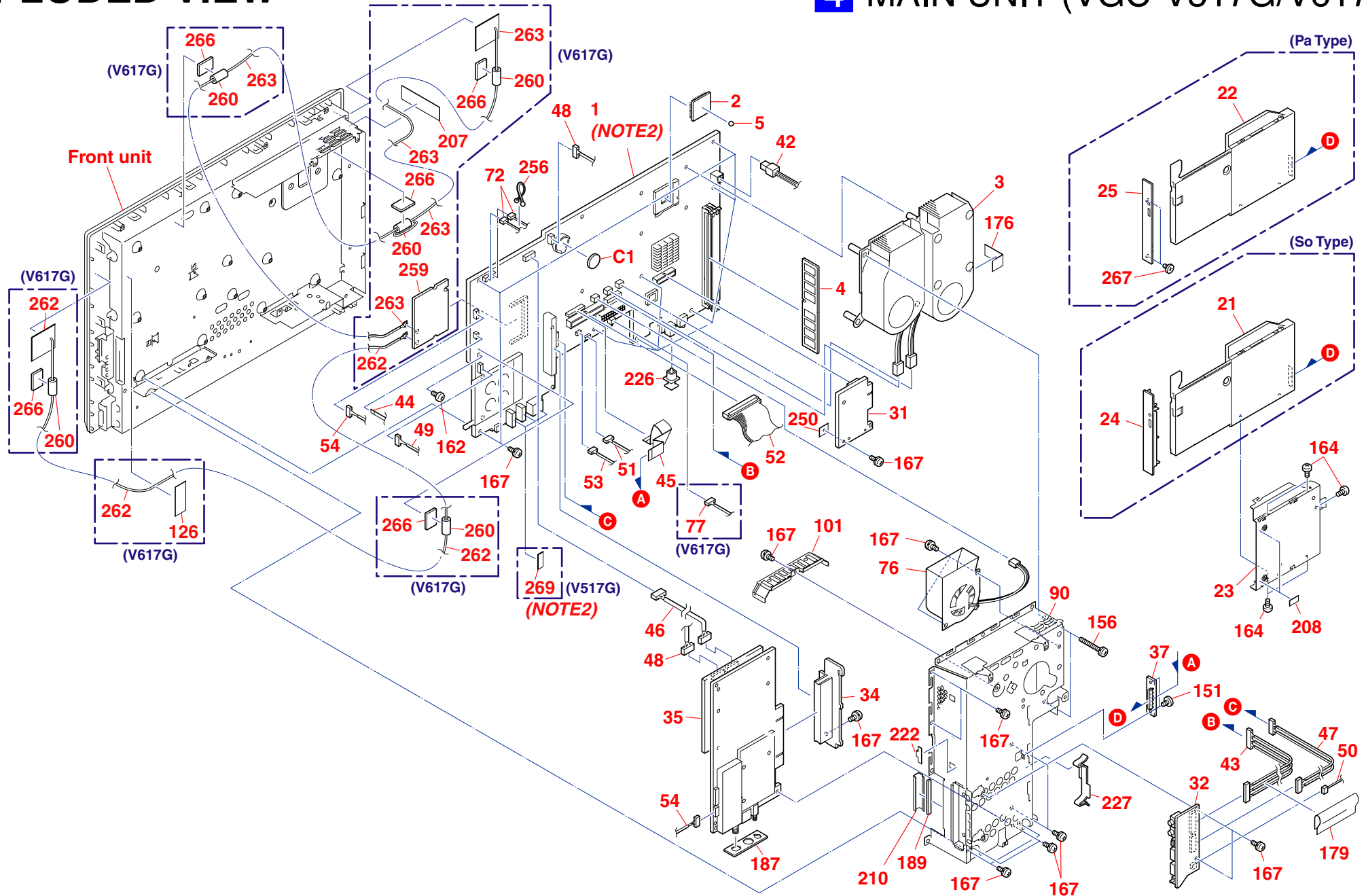


3 MAIN UNIT (VGC-V520G/V620G)

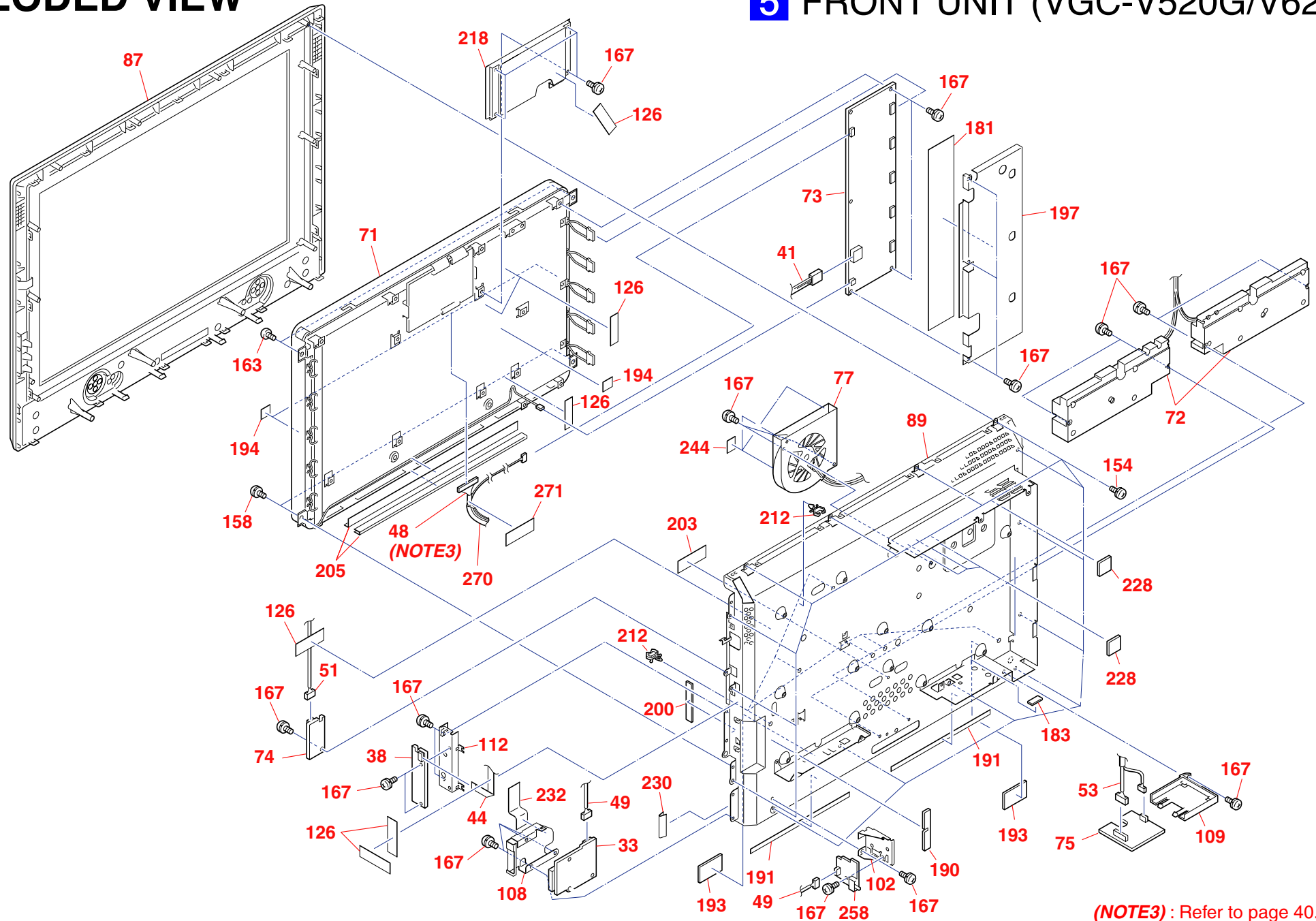


EXPLODED VIEW

4 MAIN UNIT (VGC-V517G/V617G)

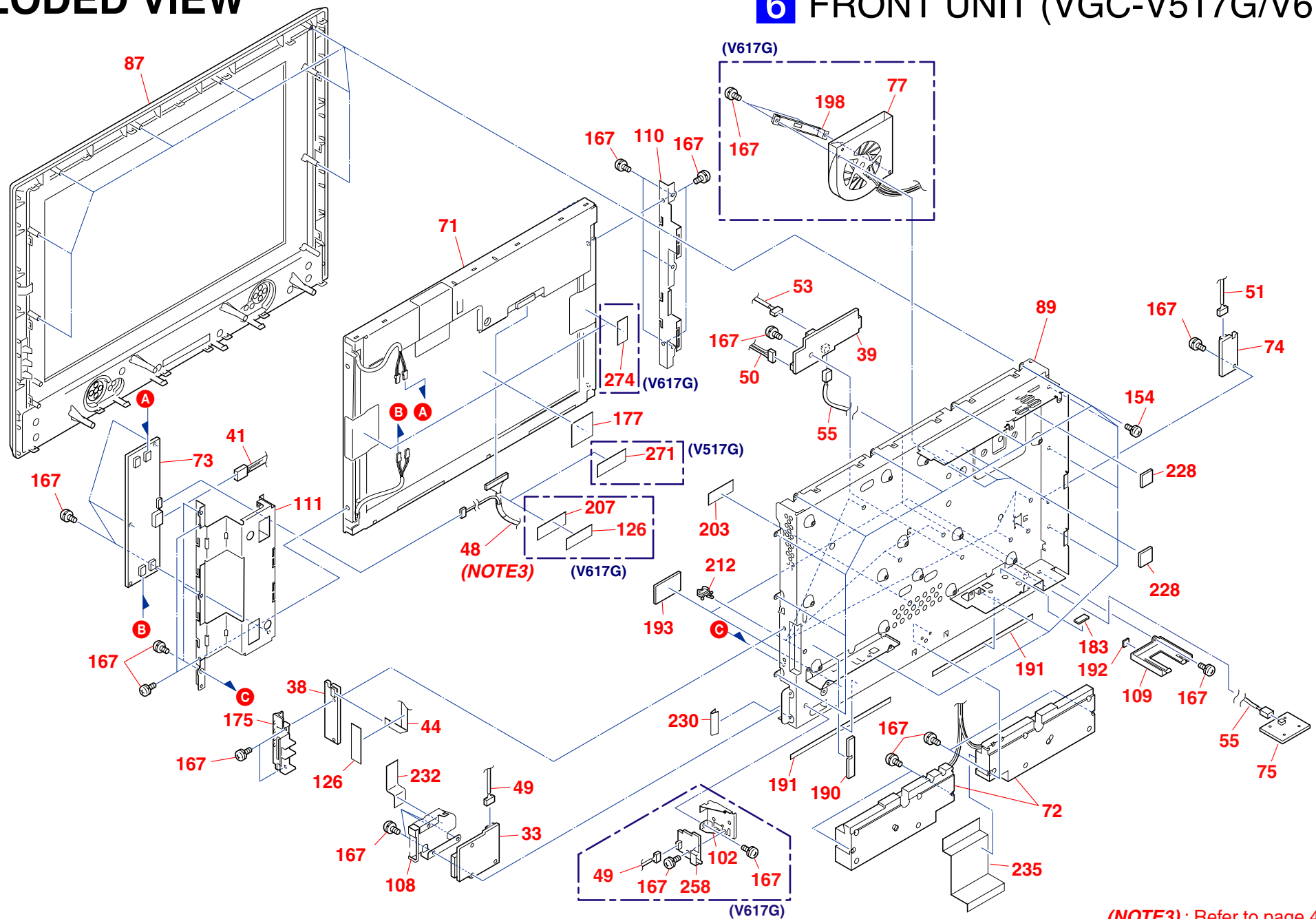


5 FRONT UNIT (VGC-V520G/V620G)



(NOTE3) : Refer to page 40.

6 FRONT UNIT (VGC-V517G/V617G)



(NOTE3) : Refer to page 40.

EXPLODED VIEW

301
KEY BOARD



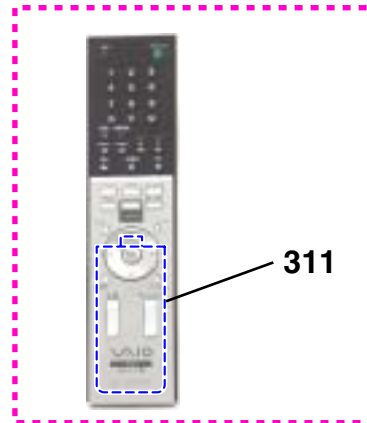
302
AC CORD



303
MOUSE



304
REMOTE COMMANDER
(RM-VC10U)



307
CONNECTION CORD (F TYPE RF)



308
CONNECTION CORD (RK-G129)



309
VIDEO ADAPTER CABLE



7 ACCESSORIES

PARTS LIST

NOTE :

- The parts listed here are for service, and therefore they may be different from the parts shown in circuit diagrams or used in the set.
- # Parts/components that are available in the commercial market.
- The number of the mark “2” is the quantity at the time of preinstallment.

Basic List

- The parts in the “Basic List” will be refer red to as the part list.
The part order should be taken place based on the part number in the list.

Substitution List

- If the repair part in the “Basic List” was not available, refer to order the “Substitution List” if available.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Basic List

Ref No	Part No	Description	2005 Spring		2005 Summer		Note
			V520G	V517G	V620G	V617G	
1	1-789-042-24	MOTHER BOARD (DI/H)	●	●			Note2:Refer to page 39.
	1-789-042-42	MOTHER BOARD (DI/H)			●	●	
2	A-1088-786-A	CPU(P4/3EG/7PM)ASSY(S)		●			6-707-380-01
	A-1089-602-A	CPU(P4/3.20EG/7PN) ASSY (S)	●			●	6-707-379-01
	A-1090-822-A	CPU(P4/3.40EG/7PP)ASSY (S)			●		6-707-378-01
3	1-787-165-23	FAN, DC (WITH HEATSINK)	●	●	●	●	
4	6-600-388-01	DDR400 512MB(HYS64D64320HU-5-C)	2	●	2	●	
5	7-300-000-40	SILICON COMPOUND (G-765) 90G	●	●	●	●	
11	A-1085-340-A	HDD (W-CVXL80-2/WD2500BB-98GUA0/250GB)ASSY(S)	●				
	A-1085-341-A	HDD (W-CVXL80-2/WD2000BB-98GUA0/200GB)ASSY(S)		●			
	A-1126-699-A	HDD (W-CVXL80-2/WD2500BB-98GUC0/250GB) ASSY (S)			●		
	A-1126-695-A	HDD (W-CVXL80-2/WD2000BB-98GUC0/200GB) ASSY (S)				●	
21	8-457-624-90	DRIVE, DVD DW-D56A-V2	●	●			
	8-457-664-10	DRIVE, DVD DW-D56A-V3			●	●	
22	1-797-051-21	W-DVD (DVR-K14VA)	●	●			
23	2-022-225-01	BRACKET, OPTICAL	●	●	●	●	
24	X-2023-819-3	ESCUTCHEON ASSY	●	●			
	X-2023-819-4	ESCUTCHEON ASSY			●	●	
25	X-2023-820-2	ESCUTCHEON (PIONEER) ASSY	●	●			
Δ 31	1-761-824-32	CNR MODEM (GVC R5A W/COVER)	●	●	●	●	
32	1-761-927-12	CNX-263 BOARD	●	●	●	●	
33	1-761-928-11	CNX-264 BOARD	●	●	●	●	
34	1-761-929-11	CNX-266 BOARD	●	●			
	1-761-929-12	CNX-266 BOARD			●	●	
35	A-1095-407-A	ENX-30 (MC2 US) ASSY	●		●		
	A-1095-408-A	ENX-30 (VC2 US) ASSY		●			
	A-1119-190-A	ENX-30 (VCA_US) ASSY				●	
37	1-761-931-11	IFX-341 BOARD	●	●	●	●	
38	1-761-932-11	SWX-174 BOARD	●	●	●	●	
39	1-761-852-21	BOARD, MAIN (RF)		●			
	1-761-852-22	BOARD, MAIN (RF)				●	
40	1-468-853-13	POWER, SWITCHING	●		●	●	Note1:Refer to page 39.
	1-468-900-11	POWER, SWITCHING		●			
41	1-962-816-11	12V INVERTER HARNESS	●	●	●		Note1:Refer to page 39.
	1-962-816-21	12V INVERTER HARNESS				●	
42	1-962-815-11	12V RELAY HARNESS	●	●	●	●	
43	1-962-813-11	AUDIO HARNESS	●	●	●	●	
44	1-829-201-12	FFC (LED/SWITCH SWX-174)	●	●	●	●	
45	1-829-202-12	FFC (OPTICAL IFX-341)	●	●	●	●	
46	1-962-811-11	HARNESS (IFX-334)	●	●	●	●	
47	1-962-812-11	I.LINK/USB HARNESS	●	●	●	●	
48	1-962-809-13	LCD HARNESS (HITACHI)	●				Note3:Refer to page 40.
	1-962-810-13	LCD HARNESS (SAMSUNG)		●			
	1-962-809-14	LCD HARNESS (HITACHI)			●		Note3:Refer to page 40.
	1-963-810-12	LCD HARNESS (AUO)				●	
49	1-962-814-21	MS HARNESS	●		●	●	Note3:Refer to page 40.
	1-962-814-31	MS HARNESS		●			
50	1-962-819-11	RF SWITCH HARNESS		●		●	
51	1-962-817-11	USB (IR) HARNESS	●	●	●	●	
52	1-961-644-63	HARNESS (IDE HDD)	●	●	●	●	
53	1-962-614-22	HARNESS (USB RF)	●		●		
	1-962-614-11	HARNESS (USB RF)		●		●	
54	1-960-620-71	HARNESS (YU AUDIO)	●	●	●	●	
55	1-828-103-21	CABLE, ANTENNA (RF)		●		●	
71	A-1085-217-A	LCD UNIT (HI/20/WXGA) (S)	●				
	A-1070-136-A	LCD UNIT (SA/17/WXGA)ASSY(S)		●			
	A-1085-217-B	LCD UNIT (HI/20/WXGA) (S)			●		
	A-1126-706-A	LCD(AU/17/WXGA) ASSY (S)				●	
72	1-478-702-11	SPEAKER UNIT	●	●	●	●	
Δ 73	1-478-704-13	INVERTER UNIT (10LAMPS)	●				
	1-478-705-13	INVERTER UNIT (4LAMPS)		●			
	1-478-704-14	INVERTER UNIT (10LAMPS)			●		
	1-479-325-11	INVERTER UNIT (4LAMPS)				●	

Ref No	Part No	Description	2005 Spring		2005 Summer		Note
			V520G	V517G	V620G	V617G	
74	1-478-726-21	RAY-CATCHER UNIT	●	●	●	●	
75	1-478-907-22	RECEIVER (RF)	●				
	1-754-304-21	ANTENNA (RF)		●			
	1-754-304-22	ANTENNA (RF)				●	
76	1-787-163-12	DC FAN (CHASSIS)	●	●			
	1-787-163-13	DC FAN (CHASSIS)			●	●	
77	1-787-164-11	DC FAN (LCD)	●				
	1-787-164-12	DC FAN (LCD)			●	●	
78	2-022-229-01	COVER, MEMORY	●	●	●	●	
80	2-022-264-02	COVER, RIGHT		●			
	2-022-264-11	COVER, RIGHT	●		●	●	
81	2-022-286-01	COVER (20), CENTER	●		●		
	2-022-325-01	COVER (17), CENTER		●		●	
82	2-022-260-03	COVER (20), REAR	●		●		
	2-022-324-03	COVER (17), REAR		●		●	
85	2-022-307-02	COVER (FRONT), STAND	●	●	●	●	
86	X-2021-203-2	COVER ASSY, STAND	●	●	●	●	
87	A-1082-363-A	COVER20 ASSY (METALLIC), FRONT	●		●		
	A-1082-364-D	COVER 17 ASSY (CLEAR), FRONT		●		●	
88	X-2021-149-3	COVER ASSY, SLIDE	●	●	●	●	
89	X-2021-144-2	MAIN CHASSIS (20) ASSY	●		●		
	X-2021-154-3	MAIN CHASSIS (17) ASSY		●			
	X-2055-742-1	MAIN CHASSIS(17) ASSY				●	
90	X-2021-145-2	CHASSIS ASSY, SUB	●	●	●	●	
91	X-2021-146-2	SHIELD ASSY	●	●	●	●	
92	X-2021-147-1	HINJI ASSY	●	●	●	●	
93	X-2021-151-4	PS METAL ASSY	●	●	●	●	
# 94	X-2022-074-1	FOOT ASSY	●	●	●	●	
95	2-022-287-01	PANEL, IO (L)	●	●	●	●	
96	2-022-288-01	PANEL, IO (R)	●	●	●	●	
97	2-022-289-01	PANEL, PC CARD (20)	●		●		
	2-022-326-01	PANEL, PC CARD (17)		●		●	
98	2-022-230-01	SHIELD (L), BOTTOM	●	●	●	●	
99	2-022-231-02	SHIELD (R), BOTTOM	●	●	●	●	
100	2-022-311-01	SHIELD, TOP	●	●	●	●	
101	2-022-226-01	BRACKET, SUPPORT	●	●	●	●	
102	2-189-318-02	BRACKET (W-LAN)	●	●	●	●	
108	2-022-232-02	MSBD BRACKET	●	●	●	●	
109	2-189-319-01	BRACKET (2.4G), RF	●		●		
	2-159-429-02	RF BRACKET		●		●	
110	2-022-317-01	LCD BRACKET (L)		●			
	2-594-822-01	LCD BRACKET (L) (A)				●	
	2-022-318-02	BRACKET (R), LCD		●			
111	2-594-823-01	LCD BRACKET (R) (A)				●	
	2-025-555-01	SWBD BRACKET (20)	●		●		
113	2-022-261-02	POWER BUTTON (20)	●		●		
114	2-149-287-01	POWER BOTTON (17)		●		●	
	2-022-265-01	DOOR, CONNECTOR	●	●	●	●	
115	A-1092-884-A	ROTATION ASSY (T1.5) (S)	●	●	●	●	
119	2-022-668-01	DOOR (20), PC CARD	●		●		
	2-022-669-01	DOOR (17), PC CARD		●		●	
122	2-148-383-01	COVER, SPACE	●	●	●	●	
124	4-649-870-11	LABEL (ETHER), CAUTION	●	●	●	●	
125	2-580-090-01	ID LABEL	●				
	2-580-091-01	ID LABEL		●			
	2-599-552-01	LABEL, ID			●		
	2-599-553-01	LABEL, ID			●	●	
126	4-676-734-01	TAPE, UL	●	●	●	●	
129	2-189-120-02	LABEL (L), I/O	●	●	●	●	
130	2-189-121-02	LABEL (AY), I/O	●	●	●	●	
151	2-108-226-01	+B2X3	●	●	●	●	
153	7-682-144-04	SCREW +P 3X3	●	●	●	●	
154	2-067-021-01	TAPPING +P3	●		●		
	2-067-021-11	TAPPING +P3		●		●	
156	2-109-403-01	+PS3X22	●	●	●	●	
157	2-067-022-01	+PS3X8	●	●	●	●	
158	2-067-018-01	+PS4X6	●		●		
162	4-678-103-01	POSITIONING SCREW	●		●	●	
163	2-067-017-01	SCREW (M4), POSITIONING	●		●		

Ref No	Part No	Description	2005 Spring		2005 Summer		Note
			V520G	V517G	V620G	V617G	
164	7-627-853-07	PRECISION SCREW +P 2X2 TYPE 3	●	●			
	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3			●	●	
165	2-050-805-01	SCREW (+K) (#6-32UNC 1/4)	●	●	●	●	
166	4-645-944-22	SCREW (SW) (NO.6-32UNC)	●	●	●	●	
167	4-679-053-01	SCREW,+PS3X6	●	●	●	●	
168	3-081-229-01	SCREW (M3X5)	●	●			
170	2-067-023-01	+B3X4	●	●	●	●	
172	4-672-839-11	HEAD, M3 FLAT	●	●	●	●	
173	X-2022-907-1	SHIELD ASSY, PS	●		●	●	
174	2-159-536-01	TAPE, PS SHIELD	●		●	●	
175	2-149-100-03	SW HOLDER (17)		●		●	
176	2-159-619-01	TAPE, ACETATE	●	●	●	●	
177	2-176-668-01	TAPE, ACETATE	●	●	●	●	
178	2-177-837-01	TAPE, ACETATE	●	●	●	●	
179	2-177-104-01	TAPE (50X70), ALUMINUM	●	●	●	●	
181	2-055-987-01	INSULATOR (INVERTER 20)	●		●		
183	2-514-965-01	GASKET (2.5X5X10)	●	●	●	●	
185	2-177-101-01	GASKET (2X7X130)	●	●	●	●	
186	2-177-106-01	GASKET (7X10X80)	●	●	●	●	
187	2-177-100-01	GASKET (AYAME)	●	●	●	●	
188	2-159-545-01	GASKET (L10X10X25)	●	●	●	●	
189	2-176-587-01	GASKET (P3X8X61)	●	●	●	●	
190	2-159-542-01	GASKET (PCMCIA 7X10X65)	●	●	●	●	
191	2-177-169-01	CUSHION (T0.5 5X170)	●	●	●	●	
192	2-159-962-01	CUSHION (T2 10X10)	●	●	●	●	
193	2-177-170-02	CUSHION (T2 30X40)	●	●	●	●	
194	2-148-121-01	TAPE, CONNECTOR	●		●		
197	2-148-374-02	SHIELD (INVERTER 20)	●		●		
198	2-636-864-01	PLATE (LCD FAN)				●	
200	2-177-410-01	SPACER (T0.8 8X70)	●		●		
203	2-177-107-01	TAPE (15X40), NICKEL CLOTH	●	●	●	●	
204	2-177-108-01	TAPE (30X50), NICKEL CLOTH	●	●	●	●	
205	2-515-166-01	TAPE (340X30), ALUMINUM	●		●		
206	2-177-102-01	TAPE (40X70), NICKEL CLOTH	●	●	●	●	
207	2-176-599-01	TAPE (50X15), NICKEL	●	●	●	●	
208	2-177-160-01	TAPE (7X11), NICKEL	●	●	●	●	
209	2-177-684-11	TAPE (IDE), NICKEL	●	●	●	●	
210	2-176-588-01	TAPE (PCMCIA), NICKEL CLOTH	●	●	●	●	
211	2-159-547-01	TAPE (PS TOP), NICKEL	●	●	●	●	
212	4-999-506-01	CLIP, HARNESS	●	●	●	●	
213	2-159-964-01	NON WOVEN CLOTH (MEMORY COVER)	●	●	●	●	
214	2-159-444-01	SADDLE, WIRE	●	●	●	●	
218	2-148-375-01	SHIELD (LCD-BD 20)	●		●		
221	2-178-263-01	CLAMP, AC	●	●	●	●	
222	2-186-828-01	SPACER (CONVEX)	●	●	●	●	
226	9-885-068-36	PLUG OF SPDIF (FOR SERVICE)	●	●	●	●	
227	2-345-120-01	CLAMP, WIRE PRESS	●	●	●	●	
228	2-318-604-01	SHEET (15X15), HEAT CONDUCTION	●	●	●	●	
229	2-318-852-01	DUCT	●	●	●	●	
230	2-320-037-01	NON WOVEN CLOTH (MS BRACKET)	●	●	●	●	
231	2-349-336-01	SHIELD (HINGE)	●	●	●	●	
232	2-514-266-01	TAPE (60X25), ALUMINUM	●	●	●	●	
234	2-514-269-02	TAPE (50X95), ALUMINUM	●	●	●	●	
235	2-514-270-01	TAPE (50X105), ALUMINUM		●		●	
236	2-514-275-01	TAPE (75X35), ALUMINUM	●	●	●	●	
238	2-541-638-01	GASKET (PS.8X10X165)	●	●	●	●	
240	2-349-841-01	GASKET (3X10X30)	●	●	●	●	
244	2-541-630-01	STOPPER, LCD	●		●		
250	2-514-990-02	TAPE (MODEM), NICKEL	●	●	●	●	
256	2-056-666-02	CLAMP (PURSE LOCK DIA. 8)	●	●	●	●	
257	2-547-981-01	TAPE (14X25), ALUMINUM	●	●	●	●	
258	1-789-043-11	SWX-184 BOARD	●		●	●	
259	1-789-014-11	CARD,WIRELESS LAN	●		●	●	
260	1-400-255-21	FERRITE CORE	●		●	●	
262	1-754-354-11	ANTENNA, FILM	●		●	●	
263	1-754-354-21	ANTENNA, FILM	●		●	●	
264	2-189-316-01	SWITCH (W-LAN), SLIDE	●		●	●	
265	2-189-317-02	LENS (W-LAN), LED	●		●	●	
266	2-349-828-01	TAPE, CORE	●		●	●	

Ref No	Part No	Description	2005 Spring		2005 Summer		Note
			V520G	V517G	V620G	V617G	
267	2-345-480-01	+P PT 1.7X04 CM3	●	●			
268	2-580-080-01	LABEL, MODEL NUMBER	●	●			
	2-580-081-01	LABEL, MODEL NUMBER		●			
	2-599-567-01	LABEL, MODEL NUMBER			●		
	2-599-568-01	LABEL, MODEL NUMBER				●	
269	2-588-002-01	TAPE (5X25), ALMINUM	●	●			
270	2-592-307-01	CUSHION(LVDS)	●		●		
271	4-663-105-11	TAPE, COPPER LEAF	●	●	●		
274	2-176-668-11	TAPE, ACETATE				●	
C1	1-528-174-31	BATTERY, LITHIUM (CR2032)	●	●	●	●	

Accessories & Packing Materials List

Ref No	Part No	Description	2005 Spring		2005 Summer		Note
			V520G	V517G	V620G	V617G	
# 301	1-478-887-13	KEY BOARD (US)	●				
	1-479-160-11	KEY BOARD		●		●	
	1-478-887-21	KEY BOARD (US)	●		●		
△# 302	1-827-924-11	CORD, AC	●	●	●	●	
# 303	1-797-022-31	MOUSE	●				
	1-796-824-81	MOUSE		●		●	
	1-797-022-32	MOUSE			●		
	1-797-022-41	MOUSE			●		
# 304	1-479-183-11	REMOTE COMMANDER (RM-VC10U)	●	●	●	●	
# 307	1-757-518-11	CODE (F TYPE RF), CONNECTION	●	●	●	●	
# 308	1-757-520-11	CODE (RK-G129), CONNECTION	●	●	●	●	
# 309	1-757-517-21	CABLE, CONNECTOR WITH VIDEO	●	●	●	●	
# 310	9-885-048-25	REST (BLACK), PARM		●		●	
# 311	9-885-067-84	BATTERY COVER (REMOTE COMMANDER)	●	●	●	●	
# 312	9-885-049-47	COVER (B), BATTERY		●		●	
	9-885-072-00	COVER (B), BATTERY	●		●		
#	2-586-514-01	LEGAL SAFETY BOOKLET (EN)(D)	●	●			
#	2-589-140-01	WELCOMEMAT (EN/SP)(D)	●	●			

Substitution List

Ref No	Part No	Description	2005 Spring		2005 Summer		Note
			V520G	V517G	V620G	V617G	
1	1-789-042-13	MOTHER BOARD (DI/H)	●	●			Note2:Refer to page 39. Note2:Refer to page 39.
	1-789-042-32	MOTHER BOARD (DI/H)			●	●	
2	A-1068-781-A	CPU(P4/3.20EG/7E5)ASSY(S)	●				6-706-698-01
4	6-600-426-01	DDR400 512MB(M368L6423FUN-CCC)				●	
11	A-1063-766-A	HDD (M-CALYPSO/7Y250P0/250GB) ASSY (S)	●				
	A-1107-240-A	HDD (M-CALYPSO/7Y250P0/250GB 2)ASSY(S)	●				
	A-1063-769-A	HDD (M-CALYPSO/6Y200P0/200GB) ASSY (S)		●			
	A-1107-241-A	HDD (M-CALYPSO/6Y200P0/200GB 2)ASSY(S)		●			
	A-1085-218-A	HDD (S-APLUS/ST3200822A/200GB) ASSY (S)		●			
	A-1085-340-A	HDD (W-CVXL80-2/WD2500BB-98GUA0/250GB)ASSY(S)			●		
	A-1107-240-A	HDD (M-CALYPSO/7Y250P0/250GB 2)ASSY(S)			●		
	A-1085-341-A	HDD (W-CVXL80-2/WD2000BB-98GUA0/200GB)ASSY(S)				●	
	A-1085-218-A	HDD (S-APLUS/ST3200822A/200GB) ASSY (S)				●	
	A-1107-241-A	HDD (M-CALYPSO/6Y200P0/200GB 2)ASSY(S)		●		●	
	A-1134-816-A	HDD(S-APLUS/ST3200822A/200GB) ASSY(S)				●	
	A-1126-695-A	HDD(W-CVXL80-2/WD2000BB-98GUC0/200GB) ASSY (S)		●			
	A-1126-699-A	HDD(W-CVXL80-2/WD2500BB-98GUC0/250GB) ASSY (S)	●				
21	8-457-624-90	DRIVE, DVD DW-D56A-V2			●	●	
34	1-761-929-12	CNX-266 BOARD	●	●			
40	1-468-853-13	POWER, SWITCHING		●			Note1:Refer to page 39. Note1:Refer to page 39.
	1-468-900-12	POWER, SWITCHING				●	

(NOTE1)

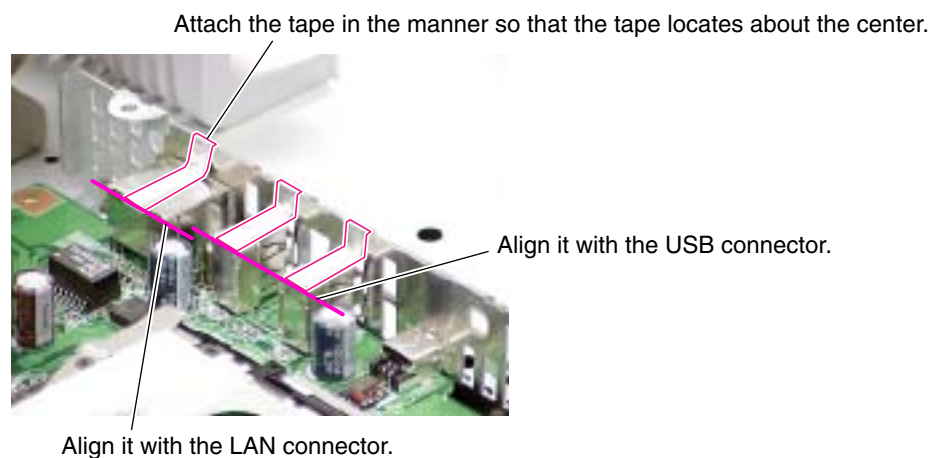
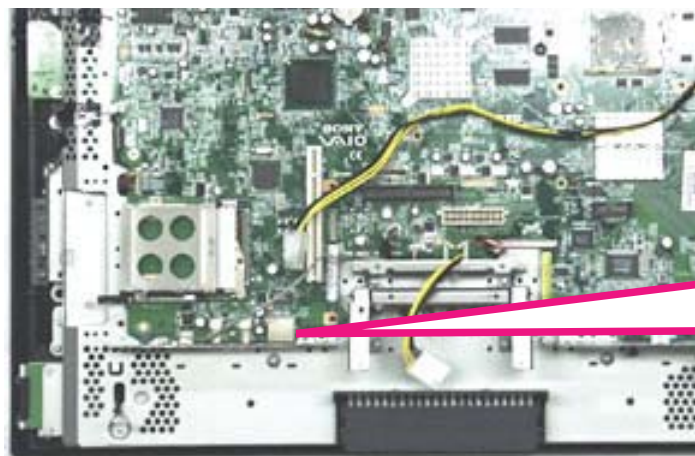
- Parts to be used differ depending on the power supply used. Be careful to use appropriate parts.

		1-468-853-13 POWER, SWITCHING (295W)	1-468-900-11,-12 POWER, SWITCHING (218W)
SHIELD ASSY, PS (Ref.No.173)	X-2022-907-1	●	×
TAPE, PS SHIELD (Ref.No.174)	2-159-536-01	●	×

(NOTE2)

- Parts to be used differ depending on the suffix of the M/B. Be careful to use appropriate parts.

		1-789-042-11,-12,-13 1-789-042-21,-22,-23	1-789-042-14 1-789-042-24 or later
TAPE (5x25), ALMINUM (Ref.No.269)	2-588-002-01	Three sheets	Not used



(NOTE3)

- The tape to fasten the LCD harness differs depending on the suffix of the harness. Be careful to use the appropriate tape.

		1-962-809-11,-12 1-962-810-11,-12	1-962-809-13 1-962-810-13 or later	1-963-810-11,-12
TAPE (50X15), NICKEL (Ref.No.207)	2-176-599-01	●	×	●
TAPE, COPPER LEAF (Ref.No.271)	4-663-105-11	×	●	×
TAPE, UL (Ref.No.126)	4-676-734-01	×	×	●

* Changed point between the harness -12 and -13 is deletion of the acetate tape next to the connector.

Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver. 1	2005.01.20	First Edition	
-02	Ver. 2	2005.05.18	△ VGC-V620G, VGC-V617G Model Addition	FIT-D2005_049
-03	Ver. 3	2006.03.10	QUICK MEMO Reflection (FIT-D2005_100, FIT-D2005_103, FIT-D2005_107, FIT-D2005_122, FIT-D2005_128, FIT-D2005_133, FIT-D2006_014)	-
<Remarks>				